



MONTON[®]

THE BEARING CHANGES THE WORLD!

MONTON[®]

洛阳盟拓轴承科技有限公司

LUOYANG MONTON BEARING SCIENCE & TECHNOLOGY CO.,LTD.



综合样本 Generak Catalogue

LUOYANG MONTON BEARING SCIENCE & TECHNOLOGY CO.,LTD.

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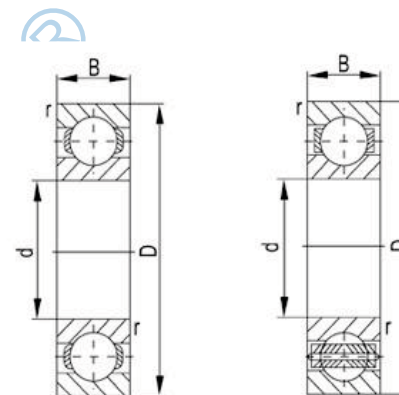
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Deep Groove Ball Bearings



Bearing NO.		Boundary dimensions(mm)				Basic load ratings(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)			Value	Weight(kg)
New	Old	d	D	B	$r_{1, 2min}$	Cr	Cor	Grease	Oil	$d_{a min}$	$D_{a max}$	$r_{a max}$	f_0	Refer
61920M	1000920H	100	140	20	1.1	42	41	4500	5300	106	133	1	16	0.96
6020M	120H	100	150	24	1.5	60	54	4500	5300	108	142	1.5	16	1.4
	720	100	180	28	2.5	89	92	3400	4000	108	142	2	15	2.7
6220M	220H	100	180	34	2.1	122	93	3400	4000	111	169	2	14	4.08
6320	320K	100	215	47	3	173	141	3000	3600	113	202	2.5	13	7.01
6320M	320H	100	215	47	3	173	141	3000	3600	113	202	2.5	13	8.89
6420M	420H	100	250	58	4	224	195	2600	3400	116	234	3	12	15.4
6021M	121H	105	160	26	2	72.5	66	4000	4800	114	151	2	16	1.92
6221	221	105	190	36	2.1	133	105	3200	3800	116	179	2	14	3.66
6321	321	105	225	49	3	184	154	2800	3400	118	212	2.5	13	8.25
61822	1000822	110	140	16	1	28.1	26	4300	5000	115	135	1	14	0.6

61922	1000922	110	150	20	1.1	43	45	4000	4800	117	144	1	17	0.9
16022	7000122	110	170	19	1	57	57	3800	4500	115	165	1	16	1.45
6022M	122H	110	170	28	2	82	73	3800	4500	119	161	2	16	2.72
6022	122	110	170	28	2	82	73	3800	4500	119	161	2	16	2.09
6222M	222H	110	200	38	2.1	144	117	3000	3600	121	189	2	14	5.45
6322	322	110	240	50	3	205	179	2600	3200	123	227	2.5	13	9.49
6422M	422H	110	280	65	4	267	226	2200	3000	156	265	3	13	19
61924M	1000924H	120	165	22	1.1	53	54	3600	4300	127	158	1	17	1.54
16024M	7000124H	120	180	19	1	60	64	3400	4000	125	175	1	17	1.82
6024M	124H	120	180	28	2	88	80	3400	4000	129	171	2	16	2.68
6224M	224H	120	215	40	2.1	145	118	2800	3400	131	204	2	14	6.33
6224	224	120	215	40	2.1	145	118	2800	3400	131	204	2	14	5.26
6324	324K	120	260	55	3	208	186	2400	3000	133	247	2.5	13	12.2
61926M	1000926H	130	180	24	1.5	65	67	3400	4000	138	172	1.5	16	1.92
	726H	130	190	19	1	43	60	3400	4000	134	186	0.7	16	1.91
16026M	7000126H	130	200	22	1.1	76	80	3200	3800	136	193	1	16	2.32
6026M	126H	130	200	33	2	106	101	3200	3800	139	191	2	16	3.96
6226M	226H	130	230	40	3	167	146	2600	3200	143	217	2.5	15	7.62
6326M	326H	130	280	58	4	228	214	2200	2800	146	264	3	14	18.3
61828M	1000828H	140	175	18	1.1	39	48	3400	4000	148	165	1	16	0.93
61928MA	1000928H	140	190	24	1.5	66	72	3200	3800	148	182	1.5	17	1.7
16028M	7000128H	140	210	22	1.1	78	83	3000	3600	148	203	1	17	3.08
6028M	128H	140	210	33	2	110	109	3000	3600	149	201	2	16	3.89
6028	128	140	210	33	2	110	109	3000	3600	149	201	2	16	3.25
6228M	228H	140	250	42	3	166	150	2400	3000	153	237	2.5	15	9.44
6328M	328H	140	300	62	4	253	246	2000	2600	156	284	3	14	22
61830MA	1000830H	150	190	20	1.1	48	59	3000	3600	157	183	1	17	1.4
61930	1000930	150	210	28	2	85	91	2800	3400	159	201	2	16	3.05
16030M	7000130H	150	225	24	1.1	84	98.5	2600	3200	156	218	1	16	3.63
6030M	130H	150	225	35	2.1	128	126	2600	3200	161	214	2	16	5.01
6030X1M		150	224.5	35	2.1	128	126	2600	3200	161	214	2	16	4.98
6230M	230H	150	270	45	3	176	168	2000	2600	163	257	2.5	15	11.8
6330M	330H	150	320	65	4	274	284	1900	2400	166	304	3	14	26
61832MA	1000832H	160	200	20	1.1	48.4	61	2800	3400	167	193	1	17	1.45
61932MA	1000932H	160	220	28	2	87	96	2600	3200	169	211	2	16	3.25
16032M	7000132H	160	240	25	1.5	99	108	2400	3000	168	232	1.5	17	4.61
6032M	132H	160	240	38	2.1	136	135	2400	3000	171	229	2	16	6.41
6032	132	160	240	38	2.1	136	135	2400	3000	171	229	2	16	5.63
6232M	232H	160	290	48	3	200	200	1900	2400	173	277	2.5	15	14.9
6332M	332H	160	340	68	4	300	323	1800	2200	176	324	3	14	31.9
	733H	165	250.5	35	2.5	125	156	2200	2600	177	238	2	16	6.44

61834M	1000834H	170	215	22	1.1	60	78	2600	3200	177	209	1	17	1.87
61934MA	1000934H	170	230	28	2	89	100	2400	3000	179	221	2	17	5.19
	734H	170	230	38	2	89	100	2400	3000	179	221	1.5	16	4.4
16034M	7000134H	170	260	28	1.5	119	129	2200	2800	178	252	1.5	16	5.83
6034M	134H	170	260	42	2.5	161	170	2200	2800	189	244	2	16	8.23
6034	134	170	260	42	2.5	161	170	2200	2800	189	244	2	16	6.78
6034M/YAI	134KH	170	265	42	2.5	161	170	2200	2800	189	245	2	16	8.6
6234M	234H	170	310	52	4	212	224	1900	2400	186	294	3	15	18.4
6334M	334H	170	360	72	4	312	340	1700	2000	186	344	3	14	34.9
61836MA	1000836H	180	225	22	1.1	61	79	2400	3000	187	218	1	17	2
61936MA	1000936H	180	250	33	2	119	128	2200	2800	189	241	2	16	5.27
	736KH	180	259.5	33	2.7	140	146	2200	2800	193	247	2.5	16	6.01
63936X2M	736H	180	259.5	52	2.7	140	146	2200	2800	193	247	2.5	16	8.66
16036M	7000136H	180	280	31	2	145	157	2000	2600	189	271	2	16	7.5
6036M	136H	180	280	46	2.1	180	185	2000	2600	199	263	2	16	10.7
6036	136	180	280	46	2.1	180	185	2000	2600	199	263	2	16	8.83
6236M	236H	180	320	52	4	227	241	1800	2200	204	297	3	15	17.8
6336M	336H	180	380	75	4	355	405	1700	2000	204	356	3	14	43.1
61838MA	1000838H	190	240	24	1.5	73	94	2200	2800	202	227	1.5	17	2.6
61938MA	1000938H	190	260	33	2	113	127	2200	2800	207	245	2	17	5.25
61938X1M	738H	190	269.5	33	2	127	138	2200	2800	190	260	2	16	6.87
16038M	7000138H	190	290	31	2	149	168	2000	2600	207	275	2	16	8.11
6038M	138H	190	290	46	2.1	188	201	2000	2600	210	273	2	16	11.1
6038X1M	138KH	190	289.5	46	2.1	188	201	2000	2600	210	273	2	16	11.1
6038	138	190	290	46	2.1	188	201	2000	2600	210	273	2	16	9.58
6238M	238H	190	340	55	4	255	282	1700	2000	215	317	3	15	23
6238	238	190	340	55	4	255	282	1700	2000	215	317	3	15	18.9
6640M-2		200	230	22	1	55	80	2400	3000	207	226	0.7	16	1.51
61840MA	1000840H	200	250	24	1.5	74	98	2200	2800	212	237	1.5	17	2.7
6640M-1		200	250	33	1.5	110	140	2200	2800	214	245	1.5	16	3.92
61940MA	1000940H	200	280	38	2.1	143	158	2000	2600	220	263	2	16	7.4
61940X1M-1	740H	200	279.5	38	2.1	143	158	2000	2600	220	263	2	16	7.25
61940X1M-2	840H	200	289.5	38	2.1	163	180	1900	2400	211	279.5	2	16	8.7
16040M	7000140H	200	310	34	2	168	190	1900	2400	218	294	2	16	10
6040M	140H	200	310	51	2.1	216	245	1900	2400	220	293	2	16	14.4
6040X1M		200	309.5	51	2.1	216	245	1900	2400	220	293	2	16	14.3
6240M	240H	200	360	58	4	269	310	1700	2000	225	337	3	15	26.7
6240	240	200	360	58	4	269	310	1700	2000	225	337	3	15	22.6
6340	340H	200	420	80	5	380	445	1500	1800	229	392	4	14	55.3
61844MA	1000844H	220	270	24	1.5	77	107	1900	2400	232	256	1.5	17	3.05
60944MA		220	300	25	1.5	82.2	118	1900	2400	228	292	1.5	17	5

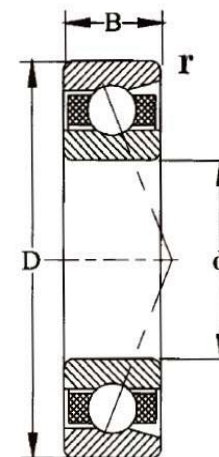
61944MA	1000944H	220	300	38	2.1	146	169	1900	2400	241	283	2	17	7.96
63944M	944H	220	300	60	2.1	136	162	1900	2400	241	283	2	16	11.7
61944X1M	744H	220	309.5	38	3	151	180	1900	2400	231	298	2	17	9.3
16044M	7000144H	220	340	37	2.1	180	217	1800	2200	241	322	2	16	13.4
6044M	144H	220	340	56	3	245	293	1800	2200	243	320	2.5	16	18.8
6244M	244H	220	400	65	4	310	375	1500	1800	246	376	3	15	37.4
6344	344H	220	460	88	5	410	520	1300	1600	250	431	4	14	73.9
61946X3M	746H	230	329.5	40	2.1	190	228	1800	2200	241	318	2	16	11.6
61848MA	1000848H	240	300	28	2	99	137	1800	2200	251	309	2	17	4.5
61948MA	1000948H	240	320	38	2.1	154	190	1800	2200	262	302	2	17	8.57
16048MA	7000148H	240	360	37	2.1	196	243	1700	2000	262	342	2	17	14.5
6048X1M	748H	240	359.5	56	3	244	296	1700	2000	264	340	2.5	16	20.7
6048M	148H	240	360	56	3	244	296	1700	2000	264	340	2.5	16	20.7
6248	248H	240	440	72	4	340	430	1300	1600	267	415	3	15	51
6348	348H	240	500	95	5	470	625	1100	1400	271	470	4	14	92.5
61852MA	1000852H	260	320	28	2	101	148	1700	2000	274	304	2	17	5.23
61952M	1000952H	260	360	46	2.1	204	255	1600	1900	282	342	2	16	14.5
61952X1M-2	952H	260	369.5	46	2.1	212	270	1600	1900	271	358.5	2	16	16.5
61952X1M-1	752KH	260	370	46	2.1	212	270	1600	1900	271	358.5	2	16	16.6
62952X1M-1	752H	260	369.5	60	4.7	224	288	1600	1900	271	358.5	2	16	19.5
62952X1M-2	852H	260	379.5	60	4.7	253	320	1600	1900	288	356	3	16	22
16052MA	7000152H	260	400	44	3	237	310	1500	1800	284	379	2.5	16	21.5
6052X2M		260	400	46	3	237	310	1500	1800	284	379	2.5	16	32.2
6052M	152H	260	400	65	4	291	375	1500	1800	288	376	3	16	29.4
6052X1M	152KH	260	399.5	65	4	291	375	1500	1800	288	376	3	16	28.8
6252	252H	260	480	80	5	400	540	1100	1400	292	450	4	15	67
6352	352H	260	540	102	6	505	710	1000	1300	298	503	5	15	118
61856M	1000856H	280	350	33	2	133	191	1600	1900	301	334	2	17	7.89
62956X3M	956H	280	375	65	2.1	187	265	1500	1800	302	357	2	17	16.2
61956MA	1000956H	280	380	46	2.1	209	272	1500	1800	303	361	2	17	15.6
61956X1M-2	756KH	280	389.5	46	4	216	285	1500	1800	291	378.5	2	17	17.6
61956X1M-1	756H	280	390	46	4	216	285	1500	1800	291	378.5	2	17	17.6
16056	7000156H	280	420	44	3	243	330	1400	1700	305	398	2.5	17	23
6056	156H	280	420	65	4	300	410	1400	1700	308	395	3	16	32.2
6256	256H	280	500	80	5	400	550	1100	1400	312	470	4	15	71
6356	356H	280	580	108	6	570	840	950	1200	319	542	5	15	140
61860MA	1000860H	300	380	38	2.1	166	233	1400	1700	324	361	2	17	10.4
61960	1000960H	300	420	56	3	270	375	1300	1600	326	398	2.5	16	24.5
61960X1	1000960KH	300	419.5	56	3	270	375	1300	1600	326	398	2.5	16	20.6
16060	7000160H	300	460	50	4	285	405	1200	1500	329	435	3	16	32
6060X2	160K1H	300	460	68	4	256	474	1200	1500	329	435	3	16	49

6060	160H	300	460	74	4	355	500	1200	1500	329	435	3	16	45
6060X1	160KH	300	459.5	74	4	355	500	1200	1500	329	435	3	16	45
6260	260H	300	540	85	5	465	670	1000	1300	333	509	4	15	87.8
61864MA	1000864H	320	400	38	2.1	168	244	1300	1600	331	389	2	17	11
61964	1000964H	320	440	56	3	266	375	1200	1500	333	427	2.5	17	25.7
62964X2	764H	320	440	65	4	278	390	1200	1500	333	427	2.5	17	27.5
16064	7000164H	320	480	50	4	293	430	1100	1400	336	464	3	17	34
6064	164H	320	480	74	4	390	570	1100	1400	350	454	3	16	46
6264	264H	320	580	92	5	530	805	950	1200	354	548	4	15	110
61868	1000868H	340	420	38	2.1	175	265	1200	1500	358	400	2	17	11.6
61968	1000968H	340	460	56	3	280	425	1100	1400	368	438	2.5	17	27.1
	768H	340	480	60	4	290	430	1100	1400	356	464	3	17	36
16068	7000168H	340	520	57	4	345	520	1000	1300	356	504	3	16	45
6068	168H	340	520	82	5	440	660	1000	1300	375	490	4	16	62
6268	268H	340	620	92	6	530	820	900	1100	368	592	5	15	110
61872	1000872H	360	440	38	2.1	192	290	1100	1400	377	420	2	17	12
61972	1000972H	360	480	56	3	280	425	1100	1400	388	457	2.5	17	29.3
16072	7000172H	360	540	57	4	365	585	1000	1300	376	524	3	16	49
6072	172H	360	540	82	5	460	720	1000	1300	396	509	4	16	64.7
6272	272H	360	650	95	6	555	905	900	1100	402	611	5	15	145
61876	1000876H	380	480	46	2.1	238	375	1000	1300	407	459	2	17	19.5
61976	1000976H	380	520	65	4	325	510	1000	1300	412	493	3	17	40
16076	7000176H	380	560	57	4	375	620	950	1200	394.6	545.4	3	17	51
6076	176H	380	560	82	5	455	725	950	1200	416	529	4	16	68.5
61880	1000880H	400	500	46	2.1	241	390	1000	1300	428	479	2	17	20.5
61980	1000980H	400	540	65	4	335	540	950	1200	433	513	3	17	42
6080	180H	400	600	90	5	510	825	900	1100	437	568	4	16	90.5
61884	1000884H	420	520	46	2.1	245	410	950	1200	449	498	2	17	21.5
61984	1000984H	420	560	65	4	340	570	900	1100	454	533	3	17	43
6084	184	420	620	90	5	530	895	900	1100	458	588	4	16	91.5
61888	1000888H	440	540	46	2.1	249	425	900	1100	470	518	2	17	21.4
61988	1000988H	440	600	74	4	395	680	900	1100	475	512	3	17	60.2
6088F1	188W1	440	650	94	6	550	965	850	1000	485	611	5	16	105
61892	1000892H	460	580	56	3	310	550	900	1100	492	555	2.5	17	33.2
61992	1000992H	460	620	74	4	405	720	850	1000	496	591	3	17	68.3
6092F1	192W1	460	680	100	6	605	1080	800	950	506	640	5	16	120
61896	1000896H	480	600	56	3	315	575	850	1000	513	575	2.5	17	35.4
61996	1000996H	480	650	78	5	450	815	800	950	520	617	4	17	80
6096F1	196W1	480	700	100	6	605	1090	750	900	527	660	5	16	125
618/500F1	10008/500	500	620	56	3	332	620	800	950	534	594	2.5	17	37.2
619/500F1	10009/500	500	670	78	5	460	865	750	900	541	637	4	17	77

60/500F1	1/500	500	720	100	6	630	1170	750	900	548	680	5	16	131
618/530F1	10008/530	530	650	56	3	325	625	750	900	565	624	2.5	17	39.5
619/530F1	10009/530	530	710	82	5	455	870	700	850	572	676	4	17	89.8
60/530F1		530	780	112	6	680	1300	670	800	579	738	5	16	184
618/560F1	10008/560	560	680	56	3	330	650	700	850	596	653	2.5	17	41.5
619/560F1	10009/560	560	750	85	5	525	1040	670	800	604	715	4	17	105
60/560F1		560	820	115	6	663	1470	630	750	586	794	5	16	210
618/600F1	10008/600	600	730	60	3	355	735	670	800	638	702	2.5	18	50.9
619/600F1	10009/600	600	800	90	5	550	1160	630	750	645	764	4	17	120
B600-17/HC		600	819	90	5	590	1200	630	750	665	806		17	135.4
60/600F1		600	870	118	6	790	1640	600	700	652	827	5	16	236
618/630F1	10008/630	630	780	69	4	420	890	630	750	672	748	3	17	71.3
619/630F1	10009/630	630	850	100	6	625	1350	600	700	683	807	5	17	163
60/630F1		630	920	128	7.5	750	1620	560	670	689	870	6	16	285
618/670F1	10008/670	670	820	69	4	435	965	560	670	714	787	3	17	75.4
619/670F1	10009/670	670	900	103	6	675	1460	530	630	724	856	5	17	181
60/670F1		670	980	136	7.5	765	1730	500	600	731	929	6	17	351
618/710F1	10008/710	710	870	74	4	480	1100	530	630	756	836	3	17	92.6
619/710F1	10009/710	710	950	106	6	715	1640	500	600	766	905	5	17	208
60/710F1		710	1030	140	7.5	1020	2310	480	560	772	978	6	16	386
618/750F1	10008/750	750	920	78	5	525	1260	500	600	801	882	4	17	110
619/750F1	10009/750	750	1000	112	6	785	1840	480	560	808	954	5	17	245
60/750F1		750	1090	150	7.5	995	2360	450	530	783	1057	6	16	485
618/700F1	10008/800	800	980	82	5	530	1310	450	530	853	940	4	17	132
619/800F1	10009/800	800	1060	115	6	825	2050	430	500	860	1013	5	17	275
60/800F1		800	1150	155	7.5	1010	2550	400	480	826	1054	5	16	540
618/850F1	10008/850	850	1030	82	5	559	1430	430	500	870	1010	4	17	140
619/850F1	10009/850	850	1120	118	6	832	2160	400	480	876	1094	5	17	310
60/850F1		850	1220	165	7.5	1120	2900	360	430	883	1187	6	16	630
618/900F1	10008/900	900	1090	85	5	618	1600	380	450	920	1070	4	18	160
619/900F1	10009/900	900	1180	122	6	852	2280	380	430	926	1154	5	17	350
60/900F1		900	1280	170	7.5	1140	3100	340	400	933	1247	6	17	720
618/950F1	10008/950	950	1150	90	5	637	1730	360	430	970	1130	4	18	190
619/950F1	10009/950	950	1250	132	7.5	1010	2800	340	400	983	1217	6	17	390
60/950F1		950	1360	180	7.5	1170	3250	320	380	983	1327	6	17	860
618/1000F1	10008/1000	1000	1220	100	6	637	1800	340	400	1026	1194	5	17	245
619/1000F1	10009/1000	1000	1320	140	7.5	1010	2800	320	380	1033	1287	6	17	515
60/1000F1		1000	1420	185	7.5	1350	3900	280	340	1033	1387	6	17	930
618/1060F1	10008/1060	1060	1280	100	6	728	2120	300	360	1086	1254	5	18	260
619/1060F1	10009/1060	1060	1400	150	7.5	1010	3000	280	340	1093	1367	6	17	620
60/1060F1		1060	1500	195	9.5	1350	3900	260	320	1100	1460	8	17	1080

618/1120F1	10008/1120	1120	1360	106	6	741	2200			1146	1334	5	18	315
619/1120F1	10009/1120	1120	1460	150	7.5	1040	3100			1153	1427	6	17	650
60/1120F1		1120	1580	200	9.5	1460	4400			1160	1540	8	17	1250
618/1180F1	10008/1180	1180	1420	106	6	710	2580			1206	1394	5	16	310
D618/1180F1		1180	1420	106/166	6	890	3650						16	450
619/1180F1	10009/1180	1180	1540	160	7.5	1140	3600			1213	1507	6	17	775
618/1250F1	10008/1250	1250	1500	112	6	852	2750			1276	1474	5	18	385
618/1320F1	10008/1320	1320	1600	122	6	956	3150			1346	1574	5	18	500
619/1320F1	10009/1320	1320	1720	128	7.5	1210	4050			1353	1687	6	17	830
618/1400F1	10008/1400	1400	1700	132	7.5	1120	4000			1433	1667	6	18	615
619/1400F1	10009/1400	1400	1820	185	9.5	1590	5500			1440	1780	8	17	1250
618/1500F1	10008/1500	1500	1820	140	7.5	1210	4400			1533	1787	6	18	745
619/1500F1	10009/1500	1500	1950	195	9.5	1720	6100			1540	1910	8	17	1500
618/1600F1	10008/1600	1600	1950	155	7.5	1270	4800			1633	1917	6	18	965
619/1600F1	10009/1600	1600	2060	200	9.5	1860	6950			1640	2020	8	17	1650
618/1700F1	10008/1700	1700	2060	160	7.5	1270	4900			1733	2070	6	18	1100
619/1700F1	10009/1700	1700	2180	212	9.5	1990	7650			1740	2140	8	17	1950

Single Row Angular Contact Ball Bearing



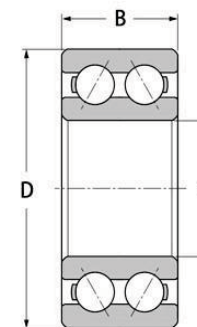
Bearing NO.			Boundary dimensions(mm)					Basic load ratings(kN)		Limiting speed(rpm)		Application point	Abutment and fillet dimensions(mm)			Value				Weight (kg)
New	Old	Duplex	d	D	B	r _{1, 2min}	r _{3, 4min}	Cr	Cor	Grease	Oil	a	d _{a min}	D _{a max}	r _{a max}	e	x	y	y _o	Refer
7220CM	36220	DT/DB/DF	100	180	34	2.1	1.1	120	136	3000	4000	35.8	112	168	2	*				3.71
7220ACM	46220	DT/DB/DF	100	180	34	2.1	1.1	114	130	3000	4000	49.6	112	168	2	0.68	0.42	0.87	0.38	3.74
7220BM	66220	DT/DB/DF	100	180	34	2.1	1.1	100	114	3000	4000	75.7	112	168	2	1.14	0.35	0.57	0.26	4
7320ACM	46320	DT/DB/DF	100	215	47	3	1.1	164	199	2600	3600	49.6	114	201	2.5	0.68	0.42	0.87	0.38	9.61
7320BM	66320	DT/DB/DF	100	215	47	3	1.1	146	178	2600	3600	89.6	114	201	2.5	1.14	0.35	0.57	0.26	8.41
7022ACM	46122	DT/DB/DF	110	170	28	2	1	100	101	3000	4000	46.7	120	160	2	0.68	0.42	0.87	0.38	2.41
7222CM	36222	DT/DB/DF	110	200	38	2.1	1.1	142	171	2600	3600	39.8	122	188	2	*				5.03
7222ACM	46222	DT/DB/DF	110	200	38	2.1	1.1	135	164	2600	3600	55.1	122	188	2	0.68	0.42	0.87	0.38	4.89
7222BM	66222	DT/DB/DF	110	200	38	2.1	1.1	147	135	2600	3600	84	122	188	2	1.14	0.35	0.57	0.26	5.18
7322ACM	46322	DT/DB/DF	110	240	50	3	1.1	184	231	2200	3200	65.8	124	226	2.5	0.68	0.42	0.87	0.38	9.97
7322BM	66322	DT/DB/DF	110	240	50	3	1.1	164	212	2200	3200	98.4	124	226	2.5	1.14	0.35	0.57	0.26	11.5
7024ACM	46124	DT/DB/DF	120	180	28	2	1	77	107	2600	3600	49	130	170	2	0.68	0.42	0.87	0.38	2.62
7224ACM	46224	DT/DB/DF	120	215	40	2.1	1.1	146	184	2200	3200	59.1	132	203	2	0.68	0.42	0.87	0.38	6.04
7324BM	66324	DT/DB/DF	120	260	55	3	1.1	193	262	1900	2800	107.2	134	246	2.5	1.14	0.35	0.57	0.26	14.6
7324ACM	46324	DT/DB/DF	120	260	55	3	1.1	204	269	1900	2800	71.8	134	246	2.5	0.68	0.42	0.87	0.38	14.1
7226CM	36226	DT/DB/DF	130	230	40	3	1.1	165	210	1900	2800	44.1	144	216	2.5	*				7.28
7226ACM	46226	DT/DB/DF	130	230	40	3	1.1	155	200	1900	2800	62	144	216	2.5	0.68	0.42	0.87	0.38	7.26
7226BM	66226	DT/DB/DF	130	230	40	3	1.1	135	175	1900	2800	95.5	144	216	2.5	1.14	0.35	0.57	0.26	7.56
7326BM	66326	DT/DB/DF	130	280	58	4	1.5	251	270	1800	2600	115	148	262	3	1.14	0.35	0.57	0.26	17.5
7028ACM	46128	DT/DB/DF	140	210	33	2	1	98	137	2000	3000	57.3	150	200	2	0.68	0.42	0.87	0.38	4.14
7228CM	36228	DT/DB/DF	140	250	42	3	1.1	180	243	1800	2600	47.1	154	236	2.5	*				8.83
7228ACM	46228	DT/DB/DF	140	250	42	3	1.1	170	237	1800	2600	66.5	154	236	2.5	0.68	0.42	0.87	0.38	8.71
7228BM	66228	DT/DB/DF	140	250	42	3	1.1	147	207	1800	2600	102.9	154	236	2.5	1.14	0.35	0.57	0.26	8.59
7328BM	66328	DT/DB/DF	140	300	62	4	1.5	212	310	1700	2400	123.3	158	282	3	1.14	0.35	0.57	0.26	21.6

7030ACM	46130	DT/DB/DF	150	225	35	2.1	1.1	137	154	1900	2800	61.2	162	213	2	0.68	0.42	0.87	0.38	4.8
7230ACM	46230	DT/DB/DF	150	270	45	3	1.1	248	280	1700	2400	71.5	164	256	2.5	0.68	0.42	0.87	0.38	12.6
7230BM	66230	DT/DB/DF	150	270	45	3	1.1	225	254	1700	2400	110.6	164	256	2.5	1.14	0.35	0.57	0.26	11.2
7330ACM	46330	DT/DB/DF	150	320	65	4	1.5	315	370	1600	2200	87.6	168	302	3	0.68	0.42	0.87	0.38	26
7330BM	66330	DT/DB/DF	150	320	65	4	1.5	289	340	1600	2200	87.3	168	302	3	1.14	0.35	0.57	0.26	26.7
7032ACM	46132	DT/DB/DF	160	240	38	2.1	1.1	155	176	1800	2600	65.6	172	228	2	0.68	0.42	0.87	0.38	5.95
7232ACM	46232	DT/DB/DF	160	290	48	3	1.1	263	305	1600	2200	76.5	174	276	2.5	0.68	0.42	0.87	0.38	14.5
7232CM	36232	DT/DB/DF	160	290	48	3	1.1	279	324	1600	2200	54.1	174	276	2.5	*				14.5
7332BM	66332	DT/DB/DF	160	340	68	4	1.5	315	385	1400	2000	138.9	178	322	3	1.14	0.35	0.57	0.26	30.8
7034ACM	46134	DT/DB/DF	170	260	42	2.1	1.1	186	214	1700	2400	71.1	182	248	2	0.68	0.42	0.87	0.38	8.27
7234CM	36234	DT/DB/DF	170	310	52	4	1.5	295	360	1600	2200	58.2	188	292	3	*				18.3
7234ACM	46234	DT/DB/DF	170	310	52	4	1.5	266	325	1600	2200	82	188	292	3	0.68	0.42	0.87	0.38	18.3
7236ACM	46236	DT/DB/DF	180	320	52	4	1.5	244	399	1500	2000	84.3	198	302	3	0.68	0.42	0.87	0.38	18.7
7236CM	36236	DT/DB/DF	180	320	52	4	1.5	256	418	1500	2000	59.5	198	302	3	*				18.7
7336BM	66336	DT/DB/DF	180	380	75	4	1.5	375	490	1300	1800	155	206	354	3	1.14	0.35	0.57	0.26	42.6
7038ACM	46138	DT/DB/DF	190	290	46	2.1	1.1	176	265	1600	2200	79	202	278	2	0.68	0.42	0.87	0.38	11.3
7238BM	66238	DT/DB/DF	190	340	55	4	1.5	284	375	1400	1900	138.7	217	315	3	1.14	0.35	0.57	0.26	22.5
7338BM	66338	DT/DB/DF	190	400	78	5	2	410	550	1200	1700	162.8	221	370	4	1.14	0.35	0.57	0.26	47.2
7040ACM	46140	DT/DB/DF	200	310	51	2.1	1.1	203	330	1500	2000	85	212	298	2	0.68	0.42	0.87	0.38	15.7
7240ACM	46240	DT/DB/DF	200	360	58	4	1.5	265	462	1300	1800	94.3	218	342	3	0.68	0.42	0.87	0.38	26.5
7240BM	66240	DT/DB/DF	200	360	58	4	1.5	238	417	1300	1800	146.5	218	342	3	1.14	0.35	0.57	0.26	26.6
7340BM	66340	DT/DB/DF	200	420	80	5	2	430	600	1100	1600	170.1	231	390	4	1.14	0.35	0.57	0.26	55.3
7244ACM	46244	DT/DB/DF	220	400	65	4	1.5	325	605	1100	1600	104.7	238	382	3	0.68	0.42	0.87	0.38	37.5
7244BM	66244	DT/DB/DF	220	400	65	4	1.5	370	530	1100	1600	162.6	248	374	3	1.14	0.35	0.57	0.26	37.1
7344BM	66344	DT/DB/DF	220	460	88	5	2	450	665	1000	1500	186.6	252	429	4	1.14	0.35	0.57	0.26	72.9
7248BM	66248	DT/DB/DF	240	440	72	4	1.5	322	626	1000	1500	178.6	258	411	3	1.14	0.35	0.57	0.26	52.3
7348BM	66348	DT/DB/DF	240	500	95	5	2	475	670	900	1300	203	262	478	5	1.14	0.35	0.57	0.26	88.5
71952ACM		DT/DB/DF	260	360	46	2.1	1.1	200	380	1300	1800	95.3	272	348	2	0.68	0.42	0.87	0.38	14.5
7252BM	66252	DT/DB/DF	260	480	80	5	2	507	780	900	1300	195	282	458	4	1.14	0.35	0.57	0.26	66
71956ACM		DT/DB/DF	280	380	46	2.1	1.1	206	405	1100	1600	99.9	292	368	2	0.68	0.42	0.87	0.38	16.7
7256BM	66256	DT/DB/DF	280	500	80	5	2	520	850	850	1200	204	302	478	4	1.14	0.35	0.57	0.26	69.5
7060BM	66160	DT/DB/DF	300	460	74	4	1.5	345	545	950	1400	196.4	331	433	3	1.14	0.35	0.57	0.26	44.5
7260BM	66260	DT/DB/DF	300	540	85	5	2.1	553	930	850	1200	219	322	518	4	1.14	0.35	0.57	0.26	86.5
7064BM	66164	DT/DB/DF	320	480	74	4	1.5	390	670	850	1200	205	338	462	3	1.14	0.35	0.57	0.26	44.5
7264BM	66264	DT/DB/DF	320	580	82	5	2	624	1120	750	1000	236	342	558	4	1.14	0.35	0.57	0.26	110
71968BM		DT/DB/DF	340	460	56	3	1.1	296	530	850	1200	196	354	446	2.5	1.14	0.35	0.57	0.26	27
7068BM	66168	DT/DB/DF	340	520	82	5	2	465	820	800	1100	221.4	377	488	4	1.14	0.35	0.57	0.26	61.8
71972BM		DT/DB/DF	360	480	56	3	1.1	302	550	800	1100	204	374	466	2.5	1.14	0.35	0.57	0.26	28.5
7072CM	36172	DT/DB/DF	360	540	82	5	2	409	960	800	1100	101.3	382	518	4	*				65.4
7072BM	66172	DT/DB/DF	360	540	82	5	2	462	850	800	1100	230	382	518	4	1.14	0.35	0.57	0.26	62.5
7272BF1	66272	DT/DB/DF	360	650	95	6	3	650	1250	700	950	261	388	622	5	1.14	0.35	0.57	0.26	145
71976BM		DT/DB/DF	380	520	65	4	1.5	345	650	800	1000	221.3	398	502	3	1.14	0.35	0.57	0.26	42.1
7076BM	66176	DT/DB/DF	380	560	82	5	2	468	880	750	1000	238	402	538	4	1.14	0.35	0.57	0.26	65.5
7080BF1	66180	DT/DB/DF	400	600	90	5	2	527	1020	700	950	255	422	578	4	1.14	0.35	0.57	0.26	85
7280BF1	66280	DT/DB/DF	400	720	103	6	3	728	1500	600	800	287	428	692	5	1.14	0.35	0.57	0.26	190
71984BM		DT/DB/DF	420	560	65	4	1.5	364	670	700	950	238	438	542	3	1.14	0.35	0.57	0.26	44.5
7084BF1	66184	DT/DB/DF	420	620	90	5	2	550	1070	600	800	263.2	460	586	4	1.14	0.35	0.57	0.26	90.6
7284BF1	66284	DT/DB/DF	420	760	109	7.5	4	695	1460	600	800	302	475	709	6	1.14	0.35	0.57	0.26	220
7088BF1	66188	DT/DB/DF	440	650	94	6	3	572	1180	630	850	276	468	622	5	1.14	0.35	0.57	0.26	100
71992ACF1		DT/DB/DF	460	620	74	4	2	507	1040	850	1200	163	478	602	3	0.68	0.42	0.87	0.38	58
7092BF1	66192	DT/DB/DF	460	680	100	6	3	618	1290	600	800	289	488	652	5	1.14	0.35	0.57	0.26	120
7096BF1	66196	DT/DB/DF	480	700	100	6	3	624	1340	560	750	298	508	672	5	1.14	0.35	0.57	0.26	125
70/500BF1		DT/DB/DF	500	720	100	6	3	637	1400	560	750	306	528	692	5	1.14	0.35	0.57	0.26	130
718/530AC1		DT/DB/DF	530	650	56	3	1.5	410	930	1100	1600	166	544	636	2.5	0.68	0.42	0.87	0.38	39.5
719/530ACF1		DT/DB/DF	530	710	82	5	2	610	1320	1000	1500	186	552	682	4	0.68	0.42	0.87	0.38	92
70/530BF1		DT/DB/DF	530	780	112	6	3	741	1700	500	670	332	558	752	5	1.14	0.35	0.57	0.26	180
718/600ACF1		DT/DB/DF	600	730	60	3	1.1	468	11600	560	750	185	614	716	2.5	0.68	0.42	0.87	0.38	47
718/670ACF1		DT/DB/DF	670	820	69	4	1.5	553	1290	850	1200	208	688	802	3	0.68	0.42	0.87	0.38	80
718/710ACF1		DT/DB/DF	710	870	74	4	1.5	600	1600	800	1100	221	728	852	3	0.68	0.42	0.87	0.38	93.5

719/710ACF1		DT/DB/DF	710	950	106	6	3	850	2200	800	1100	247	738	922	5	0.68	0.42	0.87	0.38	195
718/750ACF1		DT/DB/DF	750	920	78	5	2	650	1800	400	530	234	772	898	4	0.68	0.42	0.87	0.38	100
SN718/1180ACF1		DT/DB/DF	1180	1420	106	6	6	865	3650	200	300	356	1200	1380	5	0.68	0.42	0.87	0.38	326



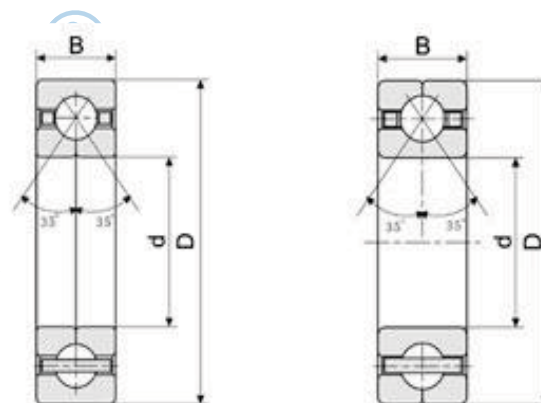
Double Row Angular Contact Ball Bearing



Bearing NO.			Boundary dimensions(mm)				Basic load ratings(kN)		Limiting speed(rpm)		Contact Angle	Design	Application point	Value					Weight (kg)	Refer foreign model		
New	Old	d	D	B/C	r ₁ , 2min	r ₃ , 4min	Cr	Cor	Grease	Oil	α		a	e	x	Y ₁	Y ₂	Y ₀	Refer	SKF	FAG	NSK
3220X1	4086920H	100	170	60.3	2.1	2.1	135	145	2200	3200	40	2	144	1.14	0.57	0.55	0.93	0.52	5.35	305397D	511044A	100BDZ1701E4
3220		100	180	60.3	2.1	2.1	157	220	2000	3000	32	1	118	0.86	0.62	0.73	1.17	0.63	6.1	3220		
3320		100	215	82.6	3	3	255	355	1800	2600	32	1	139	0.86	0.62	0.73	1.17	0.63	13.5	3320		
3221		105	190	65.1	2.1	2.1	168	186	1900	2800	32	1	124	0.86	0.62	0.73	1.17	0.63	7.4	3221		
3222M		110	200	69.8	2.1	2.1	190	270	1900	2800	32	1	132	0.86	0.62	0.73	1.17	0.63	8.8	3222		
3322		110	240	92.1	3	3	292	355	1700	2400	32	1	153	0.86	0.62	0.73	1.17	0.63	19	3322		
4024X2D		120	180	56	2.1	2.1	148	192	1900	2800	32	2	153.9	0.86	0.62	0.73	1.17	0.63	5.64		541983	120BDZ10E4
4024DM	4086124H	120	180	60	2.1	2.1	148	192	1900	2800	32	2	124	0.86	0.62	0.73	1.17	0.63	6.1			
4024X3DM	4086124KH	120	190	66	2.1	2.1	182	230	1900	2800	32	2	130	0.86	0.62	0.73	1.17	0.63	6.65	305256D	517458A	
	156724H	120	190	66	2.1	2.1	190	240	1900	2800	32	4	64	0.86	0.62	0.73	1.17	0.63	6.6	309733		
3324		120	260	106	3	3	314	390	1700	2400	45	1	243	1.34	0.54	0.47	0.81	0.44	27	3324		
4026X2DM	4086726H	130	200	75	2.1	2.1	121	208	1700	2400	45	2	203	1.34	0.54	0.47	0.81	0.44	8.06			
4028X3DM	86728H	140	209.5	66	2.1	2.1	174	239	1700	2400	40	2	182	1.14	0.57	0.55	0.93	0.52	7.4	309515D	538854	
4028X2DM	156928H	140	210	66	2.1	2.1	174	239	1700	2400	40	2	179.8	1.14	0.57	0.55	0.93	0.52	8			140BDZ10E4
4028DM	4086128H	140	210	69	2.1	2.1	174	239	1700	2400	40	2	182	1.14	0.57	0.55	0.93	0.52	8			
4030X2DM	86730H	150	225	73	2.1	2.1	199	277	1600	2200	40	2	194	1.14	0.57	0.55	0.93	0.52	9.5	305286D	510776A	150BDZ2201E4
4030DM	4086130H	150	225	75	2.1	2.1	199	277	1600	2200	40	2	194	1.14	0.57	0.55	0.93	0.52	9.7			
4030X3DM	86830H	150	230	70	2.1	2.1	221	300	1600	2200	40	2	194	1.14	0.57	0.55	0.93	0.52	10	305283D	506963	150BDZ2301E4
305248	156730H	150	240	84	2.1	2.1	258	345	1600	2200	40	4	122	1.14	0.57	0.55	0.93	0.52	16	305248	504083	150BDY2401E
305608A	156932H	160	215	56/50	1.1	2	128	213	1600	2200	40	3	186	1.14	0.57	0.55	0.93	0.52	5.45	305608A	514478	160BDZ2101E4
	156132KH	160	239.5	76	2	2	225	320	1600	2200	40	2	205.8	1.14	0.57	0.55	0.93	0.52	11		537406	160BDZ10XE4
3032X2DM	4086132KH	160	240	58	2	2	146	255	1600	2200	40	2	197	1.14	0.57	0.55	0.93	0.52	8.6			
4032X2DM	156132H	160	240	76	2.1	2.1	225	320	1600	2200	40	4	130	1.14	0.57	0.55	0.93	0.52	11	305183	507511	160BDY10E
4032DM	4086132H	160	240	80	2.1	2.1	161	289	1600	2200	45	2	240	1.34	0.54	0.47	0.81	0.44	12.2			
4934X3DM	40886734H	170	259.5	84	2.1	2.1	270	385	1500	2000	40	2	222.4	1.14	0.57	0.55	0.93	0.52	17		538853	170BDZ10XE4
305180	156134H	170	260	84	2.1	2.1	270	385	1400	1900	40	4	138	1.14	0.57	0.55	0.93	0.52	17	305180	503288	170BDY10E
4034DM	4086134H	170	260	90	2.1	2.1	270	385	1500	2000	40	2	260	1.14	0.57	0.55	0.93	0.52	17.4			

4635DM		175	280	92	2.1	2.1	293	435	1300	1800	40	4	147	1.14	0.57	0.55	0.93	0.52	21	305351	506872	175BDY2801E
4936X2DM		180	250	66	2.1	2.1	190	300	1500	2000	40	4	147.4	1.14	0.57	0.55	0.93	0.52	9.83		528711A	180BDY09E
4936DM		180	249.5	70	2.1	2.1	185	285	1500	2000	40	2	215	1.14	0.57	0.55	0.93	0.52	10.8			
	156936KH	180	249.5	70	2.5	2.5			1400	1900	40	3	145	1.14	0.57	0.55	0.93	0.52				
	156936H	180	250	70	2.1	2.1	190	300	1400	1900	40	3	145	1.14	0.57	0.55	0.93	0.52	11	305455B	508893	180BDY2501E
4936X3DM	86736H	180	259.5	66	2.1	2.1	262	390	1400	1900	40	2	170	1.14	0.57	0.55	0.93	0.52	10.8	305262D	509059A	180BDZ2501E4
4036X2DM		180	280	92	2.1	2.1	300	455	1300	1800	32	4	147						21.9	305172B	503739	180BDY10E
4036DM	4086136H	180	280	100	2.1	2.1	300	455	1300	1800	40	2	243	1.14	0.57	0.55	0.93	0.52	23.4			
4938X3-1DM		190	255	66/58	1.1	1.1	170	280	1300	1800	40	3	220	1.14	0.57	0.55	0.93	0.52	9	305609A	514479	190BDZ2501E4
4938X3DM	86738H	190	269.5	66	2.1	2.1	267	405	1300	1800	32	2	132	0.86	0.62	0.73	1.17	0.63	11	305338D	508658A	190BDZ2601E4
4038X2DM		190	290	92	2.1	1.1	325	505	1200	1700	32	4	104	0.86	0.62	0.73	1.17	0.63	21.9		507510A	190BDY10E
4038DM	4086138H	190	290	100	2.1	1.1	363	516	1200	1700	40	2	251	1.14	0.57	0.55	0.93	0.52	23			
4940X3DM	86740H	200	279.5	76	2.1	2.1	240	378	1200	1700	40	2	240	1.14	0.57	0.55	0.93	0.52	14.3	305428D	508733A	200BDZ09XE4
4940X2DM		200	280	76	2.1	2.1	226	360	1200	1700	40	4	163	1.14	0.57	0.55	0.93	0.52	14.4	305237A		200BDY09E
	156940H	200	280	80	2.1	2.1	240	378	1200	1700	40	4	161	1.14	0.57	0.55	0.93	0.52	15.2	305393	507629	200BDY2801E
4940X3D-1M	86840H	200	289.5	76	2.1	2.1	299	465	1200	1700	32	2	192	0.86	0.62	0.73	1.17	0.63	16.5	305263D	509590A	200BDZ2801E4
4040X3DM		200	309.5	96	3	3	355	560	1100	1600	40	4	166	1.14	0.57	0.55	0.93	0.52	26.5			200BDZ3001E4
	305352	200	310	96	3	3	355	560	1100	1600	40	4	166	1.14	0.57	0.55	0.93	0.52	26.6	305352	506871	200BDY3101E
4040DM	4086140H	200	310	109	3	3	364	592	1100	1600	40	2	268	1.14	0.57	0.55	0.93	0.52	28.6			
4944X2DM		220	300	76/70	1.1	2	231	405	1100	1600	40	3	256	1.14	0.57	0.55	0.93	0.52	14.5	305610A	514480	220BDZ09E4
4944X3D	86744H	220	309.5	76	3	3	335	545	1000	1500	32	2	204	0.86	0.62	0.73	1.17	0.63	18	305272D	511045A	220BDZ3001E4
4044DM	4086144H	220	340	118	3	3	377	599	1000	1500	40	2	294	1.14	0.57	0.55	0.93	0.52	26			
4946X1DM	86746H	230	329.5	80	3	3	360	615	950	1400	32	2	214	0.86	0.62	0.73	1.17	0.63	21	305264D	508732A	230BDZ3201E4
4048X1DM	4086148KH	240	359.5	118	3	3	361	651	900	1300	40	2	311	1.14	0.57	0.55	0.93	0.52	44.9			
4048DM	4086148H	240	360	118	3	3	361	651	900	1300	40	2	311	1.14	0.57	0.55	0.93	0.52	44.9			
4048X3DM	86748KH	240	370	112	3	3	389	650	900	1300	40	2	312	1.14	0.57	0.55	0.93	0.52	45			
3248X2DM	86748H	240	440	144	3	3	421	1008	850	1200	40	2	357	1.14	0.57	0.55	0.93	0.52	65.4			
305611A	86750H	250	340	76/70	2.1	2.1	274	515	950	1400	40	3	286	1.14	0.57	0.55	0.93	0.52	19	305611A	514481	250BDZ3401E4
4952X3DM	86752H	260	369.5	92	4	4	375	670	850	1200	32	2	246	0.86	0.62	0.73	1.17	0.63	34.1	305270D	508731	260BDZ3601E4
305174B	156152H	260	400	130	4	4	505	945	850	1200	40	4	212	1.14	0.57	0.55	0.93	0.52	56	305174B	505057	260BDY10E
4052DM	4086152H	260	400	140	4	4	455	835	850	1200	40	2	347	1.14	0.57	0.55	0.93	0.52	61.5			
4956X3D-1M	86756KH	280	389.5	92	4	4	380	740	850	1200	32	2	258	0.86	0.62	0.73	1.17	0.63	32	305269D	508730	280BDZ3801E4
4956X3DM	86756H	280	390	92	4	4	380	740	850	1200	40	2	258	1.14	0.57	0.55	0.93	0.52	32			
4056DM	4086156H	280	420	140	4	4	426	867	800	1100	40	2	364	1.14	0.57	0.55	0.93	0.52	58.9			
	86760H	300	419.5	112	4	4	409	800	800	1100	40	2	358	1.14	0.57	0.55	0.93	0.52	52.3			
4060DM	4086160H	300	460	160	4	4	485	860	800	1100	40	2	399	1.14	0.57	0.55	0.93	0.52	92.4			
4064X3DM	86764H	320	459.5	140	4	4	400	530	700	1000	40	2	397	1.14	0.57	0.55	0.93	0.52	80.8			
4064DM	4086164H	320	480	160	4	4	510	910	700	1000	40	2	416	1.14	0.57	0.55	0.93	0.52	94			
4068DM	4086168H	340	520	180	5	5	610	1040	600	900	40	2	451	1.14	0.57	0.55	0.93	0.52	126			
4072X2DM	4086172K	360	540	164	5	5	625	1180	500	800	40	2	460	1.14	0.57	0.55	0.93	0.52	131			
309984		650	780	84	5	5	598	1530	360	480	30	2	455	0.8	0.63	0.78	1.24	0.66	81	BA2B309984		
311631		900	1030	135	5	4	650	2400	220	320	30	2	629	0.8	0.63	0.78	1.24	0.66	150	BA2B311631		
311495		1000	1170	140	5	2.5	820	3100	190	280	30	2	698	0.8	0.63	0.78	1.24	0.66	255	BA2B311495		

Four-point Angular Contact Ball Bearings



Bearing NO.		Boundary dimensions(mm)				Basic load ratings(kN)		Limiting speed(rpm)		Application point	Abutment and fillet dimensions(mm)			Value					Weight (kg)
New	Old	d	D	B	r _{1, 2min}	Cr	Cor	Grease	Oil	a	d _{a min}	D _{a max}	r _{a max}	e	x	Y ₁	Y ₂	Y ₀	Refer
QJ1020MA	176120	100	150	24	1.5	106	134	3200	4300	88	109	141	1.5	0.95	0.6	0.66	1.07	0.58	1.6
QJF1020MB	116120	100	149.5	24	1.5	106	134	3200	4300	88	109	141	1.5	0.95	0.6	0.66	1.07	0.58	1.63
QJ1020X1MA	176720	100	149.5	24	1.5	106	134	3200	4300	88	109	141	1.5	0.95	0.6	0.66	1.07	0.58	1.6
QJF1020X1MB	116720	100	149.5	24	1.5	106	134	3200	4300	88	109	141	1.5	0.95	0.6	0.66	1.07	0.58	1.6
QJ220N2MA	176220K	100	180	34	2.1	225	240	2800	3800	98	112	168	2	0.95	0.6	0.66	1.07	0.58	4.05
QJF220MB	116220	100	180	34	2.1	225	240	2800	3800	98	112	168	2	0.95	0.6	0.66	1.07	0.58	4.06
QJ320N2MA	176320K	100	215	47	3	307	340	2400	3400	110	114	201	2.5	0.95	0.6	0.66	1.07	0.58	9.3
QJF320MB	116320	100	215	47	3	307	340	2400	3400	110	114	201	2.5	0.95	0.6	0.66	1.07	0.58	9.31
QJ1021N2MA	176121K	105	160	26	2	124	156	3000	4000	93	115	150	2	0.95	0.6	0.66	1.07	0.58	2
QJF1021MB	116121	105	160	26	2	124	156	3000	4000	93	115	150	2	0.95	0.6	0.66	1.07	0.58	2.1
QJ221N2MA	176221K	105	190	36	2.1	242	270	2600	3600	103	117	178	2	0.95	0.6	0.66	1.07	0.58	4.8
QJF221MB	116221	105	190	36	2.1	242	270	2600	3600	103	117	178	2	0.95	0.6	0.66	1.07	0.58	4.9

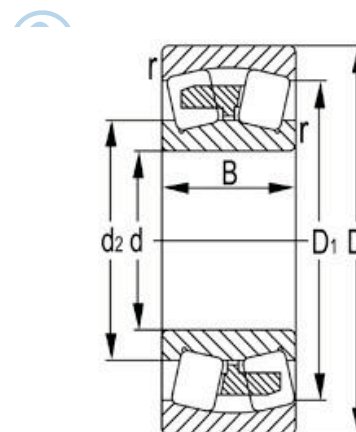
QJ1022N2MA	176122K	110	170	28	2	146	186	2800	3800	98	120	160	2	0.95	0.6	0.66	1.07	0.58	2.5
QJ1022MA	176122	110	170	28	2	146	186	2800	3800	98	120	160	2	0.95	0.6	0.66	1.07	0.58	2.68
QJF1022MB	116122	110	170	28	2	146	186	2800	3800	98	120	160	2	0.95	0.6	0.66	1.07	0.58	2.7
QJ1022X1MA	176722	110	169.5	28	2	146	186	2800	3800	98	120	160	2	0.95	0.6	0.66	1.07	0.58	2.65
QJF1022X1MB	116722	110	169.5	28	2	146	186	2800	3800	98	120	160	2	0.95	0.6	0.66	1.07	0.58	2.65
QJ222N2MA	176222K	110	200	38	2.1	265	305	2400	3400	109	122	188	2	0.95	0.6	0.66	1.07	0.58	5.6
QJ222MA	176222	110	200	38	2.1	265	305	2400	3400	109	122	188	2	0.95	0.6	0.66	1.07	0.58	5.71
QJF222MB	116222	110	200	38	2.1	265	305	2400	3400	109	122	188	2	0.95	0.6	0.66	1.07	0.58	5.73
QJ322N2MA	176322K	110	240	50	3	364	430	2000	3000	123	124	226	2.5	0.95	0.6	0.66	1.07	0.58	12
QJ322MA	176322	110	240	50	3	364	430	2000	3000	123	124	226	2.5	0.95	0.6	0.66	1.07	0.58	12.5
QJF322MB	116322	110	240	50	3	364	430	2000	3000	123	124	226	2.5	0.95	0.6	0.66	1.07	0.58	12.5
QJ1024N2MA	176124K	120	180	28	2	148	196	2600	3600	105	130	170	2	0.95	0.6	0.66	1.07	0.58	2.65
QJF1024MB	116124	120	180	28	2	148	196	2600	3600	105	130	170	2	0.95	0.6	0.66	1.07	0.58	2.65
QJ1024X1MA	176724	120	179.5	28	2	148	196	2600	3600	105	130	170	2	0.95	0.6	0.66	1.07	0.58	2.62
QJF1024X1MB	116724	120	179.5	28	2	148	196	2600	3600	105	130	170	2	0.95	0.6	0.66	1.07	0.58	2.62
QJ224N2MA	176224K	120	215	40	2.1	286	340	2200	3200	117	132	203	2	0.95	0.6	0.66	1.07	0.58	6.95
QJF224MB	116224	120	215	40	2.1	286	340	2200	3200	117	132	203	2	0.95	0.6	0.66	1.07	0.58	6.95
QJ324N2MA	176324K	120	260	55	3	390	490	1900	2800	133	134	246	2.5	0.95	0.6	0.66	1.07	0.58	15.3
QJ324MA	176324	120	260	55	3	390	490	1900	2800	133	134	246	2.5	0.95	0.6	0.66	1.07	0.58	16
QJF324MB	116324	120	260	55	3	390	490	1900	2800	133	134	246	2.5	0.95	0.6	0.66	1.07	0.58	16
QJ1026N2MA	176126K	130	200	33	2	182	240	2200	3200	116	140	190	2	0.95	0.6	0.66	1.07	0.58	4.05
QJF1026MB	116126	130	200	33	2	182	240	2200	3200	116	140	190	2	0.95	0.6	0.66	1.07	0.58	4.05
QJ1026X1MA	176726	130	199.5	33	2	182	240	2200	3200	116	140	190	2	0.95	0.6	0.66	1.07	0.58	4.02
QJF1026MB	116726	130	199.5	33	2	182	240	2200	3200	116	140	190	2	0.95	0.6	0.66	1.07	0.58	4.02
QJ226N2MA	176226K	130	230	40	3	296	365	1900	2800	126	144	216	2.5	0.95	0.6	0.66	1.07	0.58	7.75
QJF226MB	116226	130	230	40	3	296	365	1900	2800	126	144	216	2.5	0.95	0.6	0.66	1.07	0.58	7.75
QJ326N2MA	176326K	130	280	58	4	423	560	1800	2600	144	148	262	3	0.95	0.6	0.66	1.07	0.58	19.5
QJF326MB	116326	130	280	58	4	423	560	1800	2600	144	148	262	3	0.95	0.6	0.66	1.07	0.58	20.7
QJ1028N2MA	176128K	140	210	33	2	190	265	2000	3000	123	150	200	2	0.95	0.6	0.66	1.07	0.58	4.3
QJF1028MB	116128	140	210	33	2	190	265	2000	3000	123	150	200	2	0.95	0.6	0.66	1.07	0.58	4.2
QJ1028X1MA	176728	140	209.5	33	2	190	265	2000	3000	123	150	200	2	0.95	0.6	0.66	1.07	0.58	4.1
QJF1028MB	176728	140	209.5	33	2	190	265	2000	3000	123	150	200	2	0.95	0.6	0.66	1.07	0.58	4.1
QJ228N2MA	176228K	140	250	42	3	325	440	1800	2600	137	154	236	2.5	0.95	0.6	0.66	1.07	0.58	9.85
QJ228MA	176228	140	250	42	3	325	440	1800	2600	137	154	236	2.5	0.95	0.6	0.66	1.07	0.58	9.85
QJF228MB	116228	140	250	42	3	325	440	1800	2600	137	154	236	2.5	0.95	0.6	0.66	1.07	0.58	10.4
QJ328N2MA	176328K	140	300	62	4	468	640	1700	2400	154	158	282	3	0.95	0.6	0.66	1.07	0.58	23
QJ328MA	176328	140	300	62	4	468	640	1700	2400	154	158	282	3	0.95	0.6	0.66	1.07	0.58	23.3
QJF328MB	116328	140	300	62	4	468	640	1700	2400	154	158	282	3	0.95	0.6	0.66	1.07	0.58	23.3
QJ1030N2MA	176130K	150	225	35	2.1	216	305	1900	2800	131	162	213	2	0.95	0.6	0.66	1.07	0.58	5.25
QJ1030MA	176130	150	225	35	2.1	216	305	1900	2800	131	162	213	2	0.95	0.6	0.66	1.07	0.58	5.29
QJ1030X1MA	176730	150	224.5	35	2.1	220	300	1900	2800	131	162	213	2	0.95	0.6	0.66	1.07	0.58	5.27
QJF1030	116130	150	225	35	2.1	220	300	1900	2800	131	162	213	2	0.95	0.6	0.66	1.07	0.58	5.29
QJF1030X1MB	116730	150	224.5	35	2.1	220	300	1900	2800	131	162	213	2	0.95	0.6	0.66	1.07	0.58	5.27
QJ230N2MA	176230K	150	270	45	3	338	465	1700	2400	147	164	256	2.5	0.95	0.6	0.66	1.07	0.58	12.5
QJF230MB	116230	150	270	45	3	338	465	1700	2400	147	164	256	2.5	0.95	0.6	0.66	1.07	0.58	12.5
QJ330N2MA	176330K	150	320	65	4	494	710	1600	2200	165	168	302	3	0.95	0.6	0.66	1.07	0.58	29
QJF330MB	116330	150	320	65	4	494	710	1600	2200	165	168	302	3	0.95	0.6	0.66	1.07	0.58	29.4
QJ1032N2MA	176132K	160	240	38	2.1	247	355	1800	2600	140	172	228	2	0.95	0.6	0.66	1.07	0.58	6.45

QJF1032MB	116132	160	240	38	2.1	250	355	1800	2600	140	172	228	2	0.95	0.6	0.66	1.07	0.58	6.54
QJF1032X1MB	116732	160	239.5	38	2.1	250	355	1800	2600	140	172	228	2	0.95	0.6	0.66	1.07	0.58	6.5
QJ1032X1MA	176732	160	239.5	38	2.1	250	355	1800	2600	140	172	228	2	0.95	0.6	0.66	1.07	0.58	6.5
QJ232N2MA	176232K	160	290	48	3	390	570	1600	2200	158	174	276	2.5	0.95	0.6	0.66	1.07	0.58	15.2
QJ232MA	176232	160	290	48	3	390	570	1600	2200	158	174	276	2.5	0.95	0.6	0.66	1.07	0.58	15.5
QJF232MB	116232	160	290	48	3	390	570	1600	2200	158	174	276	2.5	0.95	0.6	0.66	1.07	0.58	15.5
QJ332N2MA	176332K	160	340	68	4	540	815	1500	2000	175	178	322	3	0.95	0.6	0.66	1.07	0.58	34.5
QJF332MB	116332	160	340	68	4	540	815	1500	2000	175	178	322	3	0.95	0.6	0.66	1.07	0.58	34.5
QJ1034N2MA	176134K	170	260	42	2.1	286	405	1700	2400	151	182	248	2	0.95	0.6	0.66	1.07	0.58	8.23
QJ1034MA	176134	170	260	42	2.1	292	410	1700	2400	151	182	248	2	0.95	0.6	0.66	1.07	0.58	8.23
QJF1034MB	116134	170	260	42	2.1	290	410	1700	2400	151	182	248	2	0.95	0.6	0.66	1.07	0.58	8.82
QJ1034X1MA	176734	170	259.5	42	2.1	290	410	1700	2400	151	182	248	2	0.95	0.6	0.66	1.07	0.58	8.8
QJF1034X1MB	116734	170	259.5	42	2.1	290	410	1700	2400	151	182	248	2	0.95	0.6	0.66	1.07	0.58	8.8
QJ234N2MA	176234K	170	310	52	4	397	600	1600	2200	168	188	292	3	0.95	0.6	0.66	1.07	0.58	19.5
QJ234MA	176234	170	310	52	4	397	600	1600	2200	168	188	292	3	0.95	0.6	0.66	1.07	0.58	19.5
QJF234MB	116234	170	310	52	4	397	600	1600	2200	168	188	292	3	0.95	0.6	0.66	1.07	0.58	19.5
QJ334N2MA	176334K	170	360	72	4	618	965	1400	1900	186	188	342	3	0.95	0.6	0.66	1.07	0.58	41.5
QJF334MB	116334	170	360	72	4	618	965	1400	1900	186	188	342	3	0.95	0.6	0.66	1.07	0.58	41.5
QJ1036N2MA	176136K	180	280	46	2.1	338	510	1600	2200	161	192	268	2	0.95	0.6	0.66	1.07	0.58	11
QJ1036MA	176136	180	280	46	2.1	338	510	1600	2200	161	192	268	2	0.95	0.6	0.66	1.07	0.58	10.7
QJF1036MB	116136	180	280	46	2.1	340	510	1600	2200	161	192	268	2	0.95	0.6	0.66	1.07	0.58	10.9
QJ1036X1MA	176737	180	279.5	46	2.1	340	510	1600	2200	161	192	268	2	0.95	0.6	0.66	1.07	0.58	10.7
QJF1036X1MB	116736	180	279.5	46	2.1	340	510	1600	2200	161	192	268	2	0.95	0.6	0.66	1.07	0.58	10.7
QJ236N2MA	176236K	180	320	52	4	436	680	1500	2000	175	198	302	3	0.95	0.6	0.66	1.07	0.58	20.5
QJ236MA	176236	180	320	52	4	460	710	1500	2000	175	198	302	3	0.95	0.6	0.66	1.07	0.58	17.7
QJF236MB	116236	180	320	52	4	460	710	1500	2000	175	198	302	3	0.95	0.6	0.66	1.07	0.58	18
QJ336N2MA	176336K	180	380	75	4	637	1020	1300	1800	196	198	362	3	0.95	0.6	0.66	1.07	0.58	47.5
QJ336MA	176336	180	380	75	4	637	1020	1300	1800	196	198	362	3	0.95	0.6	0.66	1.07	0.58	47.5
QJF336MB	116336	180	380	75	4	637	1020	1300	1800	196	198	362	3	0.95	0.6	0.66	1.07	0.58	47.5
QJ1038N2MA	176138K	190	290	46	2.1	338	510	1600	2200	168	202	278	2	0.95	0.6	0.66	1.07	0.58	11.5
QJF1038MB	116138	190	290	46	2.1	340	510	1600	2200	168	202	278	2	0.95	0.6	0.66	1.07	0.58	11.4
QJ1038X1MA	176738	190	289.5	46	2.1	340	510	1600	2200	168	202	278	2	0.95	0.6	0.66	1.07	0.58	11.4
QJF1038X1MB	116738	190	289.5	46	2.1	340	510	1600	2200	168	202	278	2	0.95	0.6	0.66	1.07	0.58	11.4
QJ238N2MA	176238K	190	340	55	4	488	780	1400	1900	186	208	322	3	0.95	0.6	0.66	1.07	0.58	24.5
QJF238MB	116238	190	340	55	4	488	780	1400	1900	186	208	322	3	0.95	0.6	0.66	1.07	0.58	24.5
QJ338N2MA	176338K	190	400	78	5	735	1250	1200	1600	207	210	380	4	0.95	0.6	0.66	1.07	0.58	52.1
QJF338MB	116338	190	400	78	5	735	1250	1200	1600	207	210	380	4	0.95	0.6	0.66	1.07	0.58	52.1
QJ1040N2MA	176140K	200	310	51	2.1	390	620	1500	2000	179	212	298	2	0.95	0.6	0.66	1.07	0.58	14.7
QJ1040MA	176140	200	310	51	2.1	390	620	1500	2000	179	212	298	2	0.95	0.6	0.66	1.07	0.58	14.7
QJF1040MB	116140	200	310	51	2.1	390	620	1500	2000	179	212	298	2	0.95	0.6	0.66	1.07	0.58	14.7
QJ1040X1MA	176740	200	309.5	51	2.1	390	620	1500	2000	179	212	298	2	0.95	0.6	0.66	1.07	0.58	14.7
QJF1040X1MB	116740	200	309.5	51	2.1	390	620	1500	2000	179	212	298	2	0.95	0.6	0.66	1.07	0.58	14.7
QJ240N2MA	176240K	200	360	58	4	507	850	1300	1800	196	218	342	3	0.95	0.6	0.66	1.07	0.58	28.5
QJF240MB	116240	200	360	58	4	507	850	1300	1800	196	218	342	3	0.95	0.6	0.66	1.07	0.58	28.5
QJ340N2MA	176340K	200	420	80	5	570	1270	1200	1600	217.1	222	398	4	0.95	0.6	0.66	1.07	0.58	55.3
QJF340MB	116340	200	420	80	5	570	1270	1200	1600	217.1	222	398	4	0.95	0.6	0.66	1.07	0.58	55.3
QJ1944X1MA	176944	220	309.5	60	3	442	750	1400	1900		212	298	2	0.95	0.6	0.66	1.07	0.58	13.6
QJF1944X1MB	116944	220	309.5	60	3	442	750	1400	1900		212	298	2	0.95	0.6	0.66	1.07	0.58	13.6

QJ1044N2MA	176144K	220	340	56	3	442	750	1300	1800	196	234	326	2.5	0.95	0.6	0.66	1.07	0.58	17.8
QJ1044MA	176144	220	340	56	3	442	750	1300	1800	196	234	326	2.5	0.95	0.6	0.66	1.07	0.58	17.8
QJ1044X1MA	176744	220	339.5	56	3	442	750	1300	1800	196	234	326	2.5	0.95	0.6	0.66	1.07	0.58	17.8
QJF1044X1MA	116744	220	339.5	56	3	442	750	1300	1800	196	234	326	2.5	0.95	0.6	0.66	1.07	0.58	17.8
QJ244N2MA	176244K	220	400	65	4	553	980	1100	1600	217	238	382	3	0.95	0.6	0.66	1.07	0.58	39.5
QJF244MB	116244	220	400	65	4	553	980	1100	1600	217	238	382	3	0.95	0.6	0.66	1.07	0.58	39.5
QJ344N2MA	176344K	220	460	88	5	780	1400	1000	1500	238	242	438	4	0.95	0.6	0.66	1.07	0.58	78
QJF344MB	116344	220	460	88	5	780	1400	1000	1500	238	242	438	4	0.95	0.6	0.66	1.07	0.58	78
QJ1048N2MA	176148K	240	360	56	3	449	780	1200	1700	210	254	346	2.5	0.95	0.6	0.66	1.07	0.58	21
QJ1048MA	176148	240	360	56	3	449	780	1200	1700	210	254	346	2.5	0.95	0.6	0.66	1.07	0.58	20.9
QJF1048MB	116148	240	360	56	3	449	780	1200	1700	210	254	346	2.5	0.95	0.6	0.66	1.07	0.58	20.9
QJ1048X1MA	176748	240	359.5	56	3	449	780	1200	1700	210	254	346	2.5	0.95	0.6	0.66	1.07	0.58	20.9
QJF1048X1MB	116748	240	359.5	56	3	449	780	1200	1700	210	254	346	2.5	0.95	0.6	0.66	1.07	0.58	20.9
QJ248N2MA	176248K	240	440	72	4	650	1200	1000	1500	238	258	422	3	0.95	0.6	0.66	1.07	0.58	53
QJF248MB	116248	240	440	72	4	650	1200	1000	1500	238	258	422	3	0.95	0.6	0.66	1.07	0.58	53
QJ348N2MA	176348K	240	500	95	5	1020	1960	800	1200	259	260	480	4	0.95	0.6	0.66	1.07	0.58	98.2
QJF348MB	116348	240	500	95	5	1020	1960	800	1200	260	260	480	4	0.95	0.6	0.66	1.07	0.58	98.2
QJ1952N2MA	176952K	260	360	46	2.1	390	710	1100	1600	218	271	349	2	0.95	0.6	0.66	1.07	0.58	15
QJ1052N2MA	176152K	260	400	65	4	540	1000	1000	1500	231	278	382	3	0.95	0.6	0.66	1.07	0.58	31.5
QJ1052MA	176152	260	400	65	4	540	1000	1000	1500	231	278	382	3	0.95	0.6	0.66	1.07	0.58	31.5
QJ1052X1MA	176752	260	399.5	65	4	550	1000	1000	1500	231	278	383	3	0.95	0.6	0.66	1.07	0.58	31.3
QJF1052X1MB	116752	260	399.5	65	4	550	1000	1000	1500	231	278	383	3	0.95	0.6	0.66	1.07	0.58	31.3
QJ252N2MA	176252K	260	480	80	5	728	1430	900	1300	259	282	458	4	0.95	0.6	0.66	1.07	0.58	68
QJF252MB	116252	260	480	80	5	728	1430	900	1300	370	282	458	4	0.95	0.6	0.66	1.07	0.58	78
QJ1056N2MA	176156K	280	420	65	4	553	1060	950	1400	245	298	402	3	0.95	0.6	0.66	1.07	0.58	33.5
QJF1056MB	116156	280	420	65	4	553	1060	950	1400	245	298	402	3	0.95	0.6	0.66	1.07	0.58	33.8
QJ1056X1MA	176756	280	419.5	65	4	553	1060	950	1400	245	298	402	3	0.95	0.6	0.66	1.07	0.58	33.6
QJF1058MB	116756	280	419.5	65	4	553	1060	950	1400	245	298	402	3	0.95	0.6	0.66	1.07	0.58	33.6
QJ1256N2MA		280	500	90	5	728	1460	900	1300	390	302	478	4	1.34	0.54	0.47	0.81	0.44	82
QJ1060N2MA	176160K	300	460	74	4	650	1340	900	1300	266	318	442	3	0.95	0.6	0.66	1.07	0.58	47.5
QJF1060MB	116160	300	460	74	4	650	1340	900	1300	266	318	442	3	0.95	0.6	0.66	1.07	0.58	48.5
QJ1060X3MA	176860	300	459.5	68	4	600	1250	900	1300	266	318	442	3	0.95	0.6	0.66	1.07	0.58	48.2
QJF1060X3MB	116860	300	459.5	68	4	600	1250	900	1300	266	318	442	3	0.95	0.6	0.66	1.07	0.58	48.2
QJ1260N2MA		300	540	98	5	832	1760	850	1200	420	322	518	4	1.34	0.54	0.47	0.81	0.44	105
QJ1064N2MA	176164K	320	480	74	4	663	1400	850	1200	280	338	462	3	0.95	0.6	0.66	1.07	0.58	50
QJF1064MB	116164	320	480	74	4	663	1400	850	1200	280	338	462	3	0.95	0.6	0.66	1.07	0.58	51.8
QJ1064X1MA	176764	320	479.5	74	4	660	1400	850	1200	280	338	462	3	0.95	0.6	0.66	1.07	0.58	51.8
QJF1064X1MB	116764	320	479.5	74	4	660	1400	850	1200	280	338	462	3	0.95	0.6	0.66	1.07	0.58	51.8
QJ1264N2MA		320	580	105	5	923	2040	800	1100	450	342	558	4	1.34	0.54	0.47	0.81	0.44	130
QJ1068N2MA	176168K	340	520	82	5	780	1700	800	1100	301	362	498	4	0.95	0.6	0.66	1.07	0.58	66.3
QJF1068MB	116168	340	520	82	5	780	1700	800	1100	301	362	498	4	0.95	0.6	0.66	1.07	0.58	68.8
QJ1268N2MA		340	620	118	6	1060	2450	750	1000	480	368	592	5	1.34	0.54	0.47	0.81	0.44	165
QJ1072N2MA	176172K	360	540	82	5	793	1800	800	1100	315	382	518	4	0.95	0.6	0.66	1.07	0.58	70.5
QJF1072MB	116172	360	540	82	5	793	1800	800	1100	315	382	518	4	0.95	0.6	0.66	1.07	0.58	73.5
QJ1272N2MA		360	650	122	6	1110	2600	700	950	505	388	622	5	1.34	0.54	0.47	0.81	0.44	190
QJ1076N2MA	176176K	380	560	82	5	819	1900	750	1000	329	402	538	4	0.95	0.6	0.66	1.07	0.58	73.5
QJF1076MB	116176	380	560	82	5	819	1900	750	1000		402	538	4	0.95	0.6	0.66	1.07	0.58	75
QJ1276N2MA		380	680	132	6	1170	2850	670	900	530	408	652	5	1.34	0.54	0.47	0.81	0.44	220

QJ1080N2MA	176180K	400	600	90	5	904	2160	700	950	350	422	578	4	0.95	0.6	0.66	1.07	0.58	95.5
QJF1080MB	116180	400	600	90	5	904	2160	700	950	350	422	578	4	0.95	0.6	0.66	1.07	0.58	98.5
QJ1280N2MA		400	720	140	6	1300	3250	600	800	560	428	692	5	1.34	0.54	0.47	0.81	0.44	265
QJ1984MA	176984	420	560	65	4	637	1600	700	950	343	438	542	3	0.95	0.6	0.66	1.07	0.58	51
QJF198MB	116984	420	560	65	4	637	1600	700	950	343	438	542	3	0.95	0.6	0.66	1.07	0.58	51
QJ1084N2MA	176184K	420	620	90	5	923	2280	670	900	364	442	598	4	0.95	0.6	0.66	1.07	0.58	99.5
QJF1084MB	116184	420	620	90	5	923	2280	670	900	364	442	598	4	0.95	0.6	0.66	1.07	0.58	100.5
QJ1284N2MA		420	760	150	7.5	1430	3750	560	750	590	456	724	6	1.34	0.54	0.47	0.81	0.44	315
QJ1988N2MA	176988K	440	600	74	4	761	1900	670	900	364	458	582	3	0.95	0.6	0.66	1.07	0.58	65
QJF1988MB	116988	440	600	74	4	761	1900	670	900	364	458	582	3	0.95	0.6	0.66	1.07	0.58	67
QJ1088N2MA	176188K	440	650	94	6	995	2500	630	850	382	468	622	5	0.95	0.6	0.66	1.07	0.58	115
QJF1088MB	116188	440	650	94	6	995	2500	630	850	382	468	622	5	0.95	0.6	0.66	1.07	0.58	118
QJ1288N2MA		440	790	155	7.5	1400	3750	560	750	615	476	754	6	1.34	0.54	0.47	0.81	0.44	350
QJ1092N2MA	176192K	460	680	100	6	1040	2650	600	800	399	488	652	5	0.95	0.6	0.66	1.07	0.58	130
QJF1092MB	116192	460	680	100	6	1040	2650	600	800	399	488	652	5	0.95	0.6	0.66	1.07	0.58	132
QJ1292N2MA		460	830	165	7.5	1530	4250	530	700	645	496	794	6	1.34	0.54	0.47	0.81	0.44	415
QJ1096N2MA	176196K	480	700	100	6	1060	2800	560	750	413	508	672	5	0.95	0.6	0.66	1.07	0.58	135
QJF1096MB	116196	480	700	100	6	1060	2800	560	750	413	508	672	5	0.95	0.6	0.66	1.07	0.58	137
QJ1296N2MA		480	870	170	7.5	1680	4750	500	670	675	516	834	6	1.34	0.54	0.47	0.81	0.44	470
QJF9/560X1	1168/560	560	780	60	5	530	1840	600	800	469	582	758	4	0.95	0.6	0.66	1.07	0.58	100

Spherical roller bearing



Bearing Numbers		Boundary dimensions(mm)				Basic load rating(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)			Value				Weight(kg)
New	Old	d	D	B	$r_{1, 2min}$	Cr	Cor	Grease	Oil	$d_{a min}$	$D_{a max}$	$r_{a max}$	e	Y_1	Y_2	Y_0	Refer
24018CAX3		90	150	72	3	345	550	2300	3000	94	142	2.5	0.46	2.2	2.2	1.43	4.94
24018CAX3/W20		90	150	72	3	345	550	2300	3000	94	142	2.5	0.46	2.2	2.2	1.43	4.94
23020CA/W33	3053120KH	100	150	37	1.5	212	335	2200	2800	109	141	1.5	0.22	3.1	4.6	3	2.31
24020CA/W33	4053120KH	100	150	50	1.5	276	470	1800	2400	109	141	1.5	0.3	2.3	3.4	2.2	3.08
23120CA/W33	3053720KH	100	165	52	2	345	530	1700	2200	110	155	2	0.3	2.3	3.4	2.2	4.38
24120CA/W33	4053720KH	100	165	65	2	345	535	1600	2200	110	155	2	0.35	1.9	2.9	1.9	5.42
24120CAX1		100	170	65	2	355	520	1600	2200	110	155	2	0.37	1.82	2.7	1.78	6.21
22220CA/W33	53520KH	100	180	46	2.1	365	490	2400	3200	112	168	2	0.24	2.9	4.3	2.8	4.84
23220CA/W33	3053220KH	100	180	60.3	2.1	420	605	1600	2200	112	168	2	0.32	2.1	3.2	2.1	6.6
22320CA/W33	53620KH	100	215	73	3	690	930	1900	2400	114	201	2.5	0.33	2	3	2	12.7
23022CA/W33	3053122KH	110	170	45	2	293	465	2000	2400	120	160	2	0.24	2.8	4.2	2.8	3.76
24022CA/W33	4053122KH	110	170	60	2	380	645	1600	2200	120	160	2	0.32	2.1	3.1	2.1	4.96
24022CC/W33		110	170	60	2	380	645	1600	2200	120	160	2	0.32	2.1	3.1	2.1	4.96
23122CA/W33	3053722KH	110	180	56	2	385	630	1600	2000	120	170	2	0.28	2.4	3.5	2.3	5.7

	3203722	110	180	56	2	385	630	1600	2000	120	170	2	0.28	2.4	3.5	2.3	5.7
24122CA/W33	4053722KH	110	180	69	2	460	750	1600	2000	120	170	2	0.36	1.9	2.8	1.8	6.84
24122CC/W33		110	180	69	2	460	750	1600	2000	120	170	2	0.36	1.9	2.8	1.8	6.84
22222CA/W33	53522KH	110	200	53	2.1	485	645	2200	2800	122	188	2	0.25	2.7	4	2.6	6.99
22222CAK	153522	110	200	53	2.1	485	645	2200	2800	122	188	2	0.25	2.7	4	2.6	6.99
23222CA/W33	3053222KH	110	200	69.8	2.1	515	760	1500	1900	122	188	2	0.34	2	3	1.9	9.54
21322CA/W33	53322KH	110	240	50	3	450	545	1300	1700	124	226	2.5	0.22	3.1	4.6	3	11.2
22322CA/W33	53622KH	110	240	80	3	825	1120	1700	2200	124	226	2.5	0.33	2.1	3.1	2	17.6
23322BZD/C4/W33		110	240	92.1	3	840	1000	1700	2200	124	226	2.5	0.39	1.73	2.58	1.69	20.7
23024CA/W33	3053124KH	120	180	46	2	315	525	1800	2200	130	170	2	0.22	3	4.5	2.9	4.11
24024CA/W33	4053124KH	120	180	60	2	395	705	1500	2000	130	170	2	0.32	2.1	3.2	2.1	5.33
24024CC/W33		120	180	60	2	395	705	1500	2000	130	170	2	0.32	2.1	3.2	2.1	5.33
23124CA/W33	3053724KH	120	200	62	2	465	720	1400	1800	130	190	2	0.29	2.4	3.5	2.3	7.85
24124CA/W33	4053724KH	120	200	80	2	575	950	1400	1800	130	190	2	0.37	1.8	2.7	1.8	10
22224CA/W33	53524KH	120	215	58	2.1	550	765	2000	2600	132	203	2	0.25	2.7	3.9	2.6	8.8
23224CA/W33	3053224KH	120	215	76	2.1	630	970	1300	1700	132	203	2	0.34	2	2.9	1.9	12.1
23324CA/W33		120	260	106	3	1000	1370	1300	1700	134	246	2.5	0.32	2.1	3.1	2	29.1
23026CA/W33	3053126KH	130	200	52	2	400	655	1700	2000	140	190	2	0.23	2.9	4.3	2.8	5.98
24026CA/W33	4053126KH	130	200	69	2	495	865	1400	1800	140	190	2	0.31	2.2	3.2	2.1	7.84
24026CC/W33		130	200	69	2	495	865	1400	1800	140	190	2	0.31	2.2	3.2	2.1	7.84
23126CA/W33	3053726KH	130	210	64	2	505	825	1300	1700	140	200	2	0.28	2.4	3.6	2.4	8.69
24126CA/W33	4053726KH	130	210	80	2	590	1010	1300	1700	140	200	2	0.35	1.9	2.9	1.9	10.7
22226CA/W33	53526KH	130	230	64	3	655	940	1900	2400	144	216	2.5	0.26	2.6	3.8	2.5	11
23226CA/W33	3053226KH	130	230	80	3	700	1080	1200	1600	144	216	2.5	0.34	2	2.9	1.9	14.3
24226CA/W33		130	230	100	3	750	1220	1100	1500	144	216	2.5	0.45	1.5	2.2	1.5	17.6
22326CA/W33	53626KH	130	280	93	4	995	1350	1300	1600	148	262	3	0.34	2	2.9	1.9	28.1
23326CA/W33		130	280	112	4	1120	1560	1200	1600	148	262	3	0.45	1.5	2.3	1.5	35.5
23028CA/W33	3053128KH	140	210	53	2	420	715	1600	1900	150	200	2	0.22	3	4.5	2.9	6.49
24028CA/W33	4053128KH	140	210	69	2	525	945	1300	1700	150	200	2	0.29	2.3	3.4	2.2	8.37
24028CC/W33		140	210	69	2	525	945	1300	1700	150	200	2	0.29	2.3	3.4	2.2	8.37
23128CA/W33	3053728KH	140	225	68	2.1	580	945	1200	1600	152	213	2	0.28	2.4	3.6	2.3	10.5
24128CA/W33	4053728KH	140	225	85	2.1	670	1160	1200	1600	152	213	2	0.35	1.9	2.9	1.9	13
22228CA/W33	53528KH	140	250	68	3	645	930	1400	1700	154	236	2.5	0.25	2.7	4	2.6	14.5
23228CA/W33	3053228KH	140	250	88	3	835	1300	1100	1500	154	236	2.5	0.35	1.9	2.9	1.9	18.8
24228CA/W33		140	250	109	3	880	1460	1000	1400	154	236	2.5	0.46	1.5	2.2	1.4	24.2
22328CA/W33	53628KH	140	300	102	4	1160	1590	1200	1500	158	282	3	0.35	1.9	2.9	1.9	35.4
23328CA/W33		140	300	118	4	1250	1730	1100	1500	158	282	3	0.43	1.6	2.3	1.5	42.5
23930CA/W33	3053930KH	150	210	45	2	334	622	1500	1700	160	200	2	0.2	3.44	5.12	3.36	4.97
23030CA/W33	3053130KH	150	225	56	2.1	470	815	1400	1800	162	213	2	0.22	3.1	4.6	3	7.9
24030CA/W33	4053130KH	150	225	75	2.1	590	1090	1200	1500	162	213	2	0.3	2.3	3.4	2.2	10.5
24030CC/W33		150	225	75	2.1	590	1090	1200	1500	162	213	2	0.3	2.3	3.4	2.2	10.5
23130CA/W33	3053730KH	150	250	80	2.1	725	1180	1100	1400	162	238	2	0.3	2.3	3.4	2.2	15.8
24130CA/W33	4053730KH	150	250	100	2.1	890	1530	1100	1400	162	238	2	0.38	1.8	2.6	1.7	19.8
24130CC/W33		150	250	100	2.1	890	1530	1100	1400	162	238	2	0.38	1.8	2.6	1.7	19.8
22230CA/W33	53530KH	150	270	73	3	765	1120	1300	1600	164	256	2.5	0.26	2.6	3.9	2.5	18.4
23230CA/W33	3053230KH	150	270	96	3	975	1560	1100	1400	164	256	2.5	0.35	1.9	2.9	1.9	24.2
24230CA/W33		150	270	118	3	1020	1660	1000	1300	164	256	2.5	0.46	1.5	2.2	1.4	30.5
22330CA/W33	53630KH	150	320	108	4	1220	1690	1100	1400	168	302	3	0.35	1.9	2.9	1.9	41.5

23330CA/W33		150	320	128	4	1460	2080	1000	1300	168	302	3	0.44	1.5	2.3	1.5	52.5
26/152.43CA/W33		152.434	270	100	2.1	852	1425	1200	1600	165	238	2	0.37	1.8	2.7	1.8	19.5
26/152.43CA/W33		152.434	270	86	2.1	803	1300	1300	1700	169	258	2	0.3	2.3	3.4	2.2	20.5
23932CA/W33	3053932KH	160	220	45	2	360	675	1400	1800	170	210	2	0.18	3.8	5.6	3.7	4.97
24932CA/W33		160	220	60	2	393	807	1400	1800	170	210	2	0.24	2.8	4.2	2.8	6.85
23032CA/W33	3053132KH	160	240	60	2.1	540	955	1300	1700	172	228	2	0.22	3	4.5	2.9	9.66
24032CA/W33	4053132KH	160	240	80	2.1	680	1260	1100	1400	172	228	2	0.3	2.3	3.4	2.2	12.7
24032CC/W33		160	240	80	2.1	680	1260	1100	1400	172	228	2	0.3	2.3	3.4	2.2	12.7
23132CA/W33	3053732KH	160	270	86	2.1	855	1400	1000	1300	172	258	2	0.3	2.3	3.4	2.2	20.3
24132CA/W33	4053732KH	160	270	109	2.1	1040	1760	1000	1300	172	258	2	0.39	1.7	2.6	1.7	25.4
22232CA/W33	53532KH	160	290	80	3	910	1320	1200	1500	174	276	2.5	0.26	2.6	3.8	2.5	23.1
23232CA/W33	3053232KH	160	290	104	3	1100	1770	1000	1200	174	276	2.5	0.34	2	2.9	1.9	30.5
24232CA/W33		160	290	128	3	1120	1800	950	1300	174	276	2.5	0.47	1.4	2.1	1.4	36
22332CA/W33	53632KH	160	340	114	4	1360	1900	1100	1300	178	322	3	0.35	1.9	2.9	1.9	49.3
23332CA/W33		160	340	136	4	1630	2240	1100	1300	178	322	3	0.44	1.5	2.3	1.5	61.5
26/165.13CA/W33		165.134	310	110	4	1159	1830	950	1300	183	292	3	0.35	1.9	2.9	1.8	37.5
23934BCA/W33	3053934KH	170	230	45	2	350	660	1400	1800	180	220	2	0.17	3.9	5.8	3.8	5.38
23034CA/W33	3053134KH	170	260	67	2.1	640	1090	1200	1600	182	248	2	0.23	2.9	4.3	2.8	13
24034CA/W33	4053134KH	170	260	90	2.1	825	1520	1000	1300	182	248	2	0.31	2.2	3.2	2.1	17.3
23134CA/W33	3053734KH	170	280	88	2.1	940	1570	1000	1300	182	268	2	0.29	2.3	3.5	2.3	21.8
24134CA/W33	4053734KH	170	280	109	2.1	1080	1860	1000	1300	182	268	2	0.37	1.8	2.7	1.8	26.6
22234CA/W33	53534KH	170	310	86	4	990	1500	1100	1400	188	292	3	0.26	2.6	3.8	2.5	28.8
23234CA/W33	3053234KH	170	310	110	4	1200	1910	900	1200	188	292	3	0.34	2	2.9	1.9	36.4
24234CA/W33		170	310	140	4	1290	2080	900	1200	188	292	3	0.48	1.4	2.1	1.4	45
22334CA/W33	53634KH	170	360	120	4	1580	2110	1000	1200	188	342	3	0.35	1.9	2.9	1.9	57.9
23334CA/W33		170	360	140	4	1760	2500	1000	1200	188	342	3	0.43	1.6	2.3	1.5	71.8
23936CA/W33	3053936KH	180	250	52	2	470	890	1200	1600	190	240	2	0.18	3.7	5.5	3.6	7.64
23036CA/W33	3053136KH	180	280	74	2.1	750	1270	1200	1400	192	268	2	0.24	2.8	4.2	2.8	17.1
24036CA/W33	4053136KH	180	280	100	2.1	965	1750	950	1200	192	268	2	0.32	2.1	3.1	2	22.7
24036CA/W33	4053136KH	180	280	100	2.1	965	1750	950	1200	192	268	2	0.32	2.1	3.1	2	22.7
23136CA/W33	3053736KH	180	300	96	3	1050	1760	900	1200	194	286	2.5	0.3	2.3	3.4	2.2	27.5
24136CA/W33	4053736KH	180	300	118	3	1190	2040	900	1200	194	286	2.5	0.37	1.8	2.7	1.8	33.1
22236CA/W33	53536KH	180	320	86	4	1020	1540	1100	1300	198	302	3	0.26	2.6	3.9	2.6	30.2
23236CA/W33	3053236KH	180	320	112	4	1300	2110	850	1100	198	302	3	0.33	2	3	2	38.9
24236CA/W33		180	320	140	4	1430	2400	850	1100	198	302	3	0.46	1.5	2.2	1.4	50.4
22336CA/W33	53636KH	180	380	126	4	1740	2340	950	1200	198	362	3	0.34	2	2.9	1.9	67
23336CA/W33		180	380	150	4	2000	2850	950	1200	198	362	3	0.44	1.5	2.3	1.5	86.1
23938CA/W33	3053938KH	190	260	52	2	460	875	1200	1500	200	250	2	0.18	3.8	5.7	3.7	8.03
23038CA/W33	3053138KH	190	290	75	2.1	775	1350	1100	1400	202	278	2	0.24	2.8	4.2	2.8	17.6
24038CA/W33	4053138KH	190	290	100	2.1	975	1840	900	1200	202	278	2	0.31	2.2	3.2	2.1	24
23138CA/W33	3053738KH	190	320	104	3	1190	2020	850	1100	204	306	2.5	0.31	2.2	3.3	2.2	34.5
24138CA/W33	4053738KH	190	320	128	3	1370	2330	850	1100	204	306	2.5	0.4	1.7	2.5	1.6	41.5
24138CC/W33		190	320	128	3	1370	2330	850	1100	204	306	2.5	0.4	1.7	2.5	1.6	41.5
22238CA/W33	53538KH	190	340	92	4	1140	1730	1000	1200	208	322	3	0.26	2.6	3.8	2.5	35.5
23238CA/W33	3053238KH	190	340	120	4	1440	2350	800	1100	208	322	3	0.35	1.9	2.9	1.9	47.6
24238CA/W33		190	340	150	4	1600	2700	800	1100	208	322	3	0.47	1.4	2.1	1.4	61.2
22338CA/W33	53638KH	190	400	132	5	1890	2590	900	1100	212	378	4	0.34	2	2.9	1.9	78.1
23338CA/W33		190	400	155	5	2120	3050	900	1100	212	378	4	0.43	1.6	2.3	1.5	98

23940CA/W33	3053940KH	200	280	60	2.1	570	1060	1100	1400	212	268	2	0.2	3.4	5.1	3.3	11
23040CA/W33	3053140KH	200	310	82	2.1	940	1700	1000	1300	212	298	2	0.25	2.7	4	2.6	22.6
24040CA/W33	4053140KH	200	310	109	2.1	1140	2120	850	1100	212	298	2	0.32	2.1	3.1	2	30.4
23140CA/W33	3053740KH	200	340	112	3	1360	2330	800	1000	214	326	2.5	0.31	2.2	3.2	2.1	42.7
24140CA/W33	4053740KH	200	340	140	3	1570	2670	800	1000	214	326	2.5	0.39	1.8	2.6	1.7	51.3
22240CA/W33	53540KH	200	360	98	4	1300	2010	950	1200	218	342	3	0.26	2.6	3.8	2.5	42.6
23240CA/W33	3053240KH	200	360	128	4	1660	2750	750	1000	218	342	3	0.34	2	2.9	1.9	57.1
24240CA/W33		200	360	160	4	1760	3050	750	1000	218	342	3	0.48	1.4	2.1	1.4	73.8
22340CA/W33	53640KH	200	420	138	5	2000	2990	850	1000	222	398	4	0.34	2	2.9	1.9	92.6
23340CA/W33		200	420	165	5	2400	3450	850	1000	222	398	4	0.43	1.5	2.3	1.5	115
23944CA/W33	3053944KH	220	300	60	2.1	625	1240	1000	1300	232	288	2	0.18	3.8	5.7	3.7	12.2
23044CA/W33	3053144KH	220	340	90	3	1090	1980	950	1200	234	326	2.5	0.24	2.8	4.1	2.7	29.7
24044CA/W33	4053144KH	220	340	118	3	1360	2600	750	1000	234	326	2.5	0.31	2.1	3.2	2.1	40.5
23144CA/W33	3053744KH	220	370	120	4	1570	2710	710	950	238	352	3	0.3	2.2	3.3	2.2	53
24144CA/W33	4053744KH	220	370	150	4	1800	3200	710	950	238	352	3	0.39	1.7	2.6	1.7	66.7
22244CA/W33	53544KH	220	400	108	4	1570	2430	850	1000	238	382	3	0.27	2.5	3.7	2.4	59
23244CA/W33	3053244KH	220	400	144	4	2020	3400	670	900	238	382	3	0.35	1.9	2.9	1.9	80.4
23244X2CA/W33	3053244X2KH	220	400	150	4	2040	3400	670	900	238	382	3	0.41	1.64	2.44	1.61	81.9
24244CA/W33		220	400	180	4	2200	3750	650	900	238	382	3	0.48	1.4	2.1	1.4	103
22344CA/W33	53644KH	220	460	145	5	2350	3400	750	950	242	438	4	0.33	2	3	2	116
23948CA/W33	3053948KH	240	320	60	2.1	635	1300	950	1200	252	308	2	0.17	4	6	3.9	13.3
23048CA/W33	3053148KH	240	360	92	3	1160	2140	850	1100	254	346	2.5	0.24	2.8	4.2	2.7	32.6
24048CA/W33	4053148KH	240	360	118	3	1390	2730	710	950	254	346	2.5	0.29	2.3	3.4	2.2	43.4
23148CA/W33	3053748KH	240	400	128	4	1790	3100	670	850	258	382	3	0.3	2.2	3.3	2.2	66.9
24148CA/W33	4053748KH	240	400	160	4	2130	3800	670	850	258	382	3	0.38	1.8	2.7	1.8	79.5
22248CA/W33	53548KH	240	440	120	4	1870	2890	750	950	258	422	3	0.27	2.5	3.7	2.4	80.2
23248CA/W33	3053248KH	240	440	160	4	2440	4050	630	800	258	422	3	0.37	1.8	2.7	1.8	106
24248CA/W33		240	440	200	4	2650	4550	600	800	258	422	3	0.49	1.4	2	1.3	140
22348CA/W33	53648KH	240	500	155	5	2600	3800	670	850	262	478	4	0.32	2.1	3.2	2.1	147
23852CA/W33	3053852KH	260	320	45	2	366	883	850	1100	270	310	2	0.12	5.6	8.4	5.6	8.05
23952X2CA/W33	3053952X2KH	260	360	70	2.1	805	1590	850	1000	272	348	2	0.18	3.76	5.6	3.67	21.6
23952CA/W33	3053952KH	260	360	75	2.1	930	1870	850	1000	272	348	2	0.19	3.6	5.4	3.5	23
24952CA/W33	4053952KH	260	360	100	2.1	1070	2375	850	1100	272	348	2	0.24	2.8	4.2	2.8	32
23052CA/W33	3053152KH	260	400	104	4	1430	2580	800	950	278	382	3	0.25	2.7	4.1	2.7	46.6
24052CA/W33	4053152KH	260	400	140	4	1810	3500	630	850	278	382	3	0.32	2.1	3.1	2.1	62.6
23152CA/W33	3053752KH	260	440	144	4	2160	3750	600	800	278	422	3	0.32	2.1	3.2	2.1	88.2
24152CA/W33	4053752KH	260	440	180	4	2560	4700	600	800	278	422	3	0.39	1.7	2.6	1.7	109
22252CA/W33	53552KH	260	480	130	5	2180	3400	670	850	282	458	4	0.27	2.5	3.7	2.5	104
23252CA/W33	3053252KH	260	480	174	5	2740	4550	560	750	282	458	4	0.37	1.8	2.7	1.8	137
24252CA/W33		260	480	218	5	3150	5400	530	670	282	458	4	0.49	1.4	2	1.3	182
22352CA/W33	53652KH	260	540	165	6	3100	4600	630	800	288	512	5	0.32	2.1	3.2	2.1	180
23856CA/W33	3053856KH	280	350	52	2	480	1121	800	1000	290	340	2	0.12	5.6	8.4	5.6	12
23956CA/W33	3053956KH	280	380	75	2.1	925	1950	800	950	292	368	2	0.18	3.9	5.7	3.8	24.5
24956CA/W33	4053956KH	280	380	100	2.1	1016	2327	800	1000	292	368	2	0.23	2.9	4.4	2.8	34.5
23056CA/W33	3053156KH	280	420	106	4	1540	2950	710	900	298	402	3	0.24	2.8	4.2	2.7	50.5
24056CA/W33	4053156KH	280	420	140	4	1880	3800	600	800	298	402	3	0.31	2.2	3.3	2.2	66.4
2656CA/W33		280	440	160	4	2180	4250	580	780	298	422	3	0.35	1.92	2.86	1.88	88.6
23156CA/W33	3053756KH	280	460	146	5	2230	4000	560	750	302	438	4	0.3	2.2	3.3	2.2	94.3

24156CA/W33	4053756KH	280	460	180	5	2640	5000	560	750	302	438	4	0.37	1.8	2.7	1.8	115
22256CA/W33	53556KH	280	500	130	5	2280	3650	630	800	302	478	4	0.25	2.7	4	2.6	110
23256CA/W33	3053256KH	280	500	176	5	2880	4900	530	670	302	478	4	0.35	1.9	2.9	1.9	147
24256CA/W33		280	500	218	5	3250	5850	500	670	302	478	4	0.46	1.5	2.2	1.4	192
22356CA/W33	53656KH	280	580	175	6	3500	5150	560	710	308	552	5	0.31	2.1	3.2	2.1	221
23860CA/W33	3053860KH	300	380	60	2.1	612	1482	700	900	312	368	2	0.13	5.2	7.7	5	17
23960CA/W33	3053960KH	300	420	90	3	1230	2490	710	900	314	406	2.5	0.19	3.5	5.2	3.4	38.2
23060CA/W33	3053160KH	300	460	118	4	1920	3700	670	850	318	442	3	0.24	2.8	4.2	2.7	70.5
24060CA/W33	4053160KH	300	460	160	4	2310	4600	530	710	318	442	3	0.32	2.1	3.1	2	93.6
23160CA/W33	3053760KH	300	500	160	5	2670	4800	500	670	322	478	4	0.31	2.2	3.3	2.2	125
24160CA/W33	4053760KH	300	500	200	5	3100	5800	500	670	322	478	4	0.38	1.8	2.6	1.7	152
22260CA/W33	53560KH	300	540	140	5	2610	4250	600	750	322	518	4	0.25	2.7	4	2.6	139
23260CA/W33	3053260KH	300	540	192	5	3400	5900	480	630	322	518	4	0.35	1.9	2.9	1.9	189
24260CA/W33		300	540	243	5	3900	7200	450	600	322	518	4	0.48	1.4	2.1	1.4	254
22360CA/W33	53660KH	300	620	185	7.5	3950	5900	400	520	350	572	6	0.31	2.2	3.3	2.2	264
23864CA/W33	3053864KH	320	400	60	2.1	639	1577	950	1300	332	388	2	0.12	5.6	8.4	5.6	17.5
24864CA/W33		320	400	80	2.1	870	2210	900	1200	332	388	2	0.17	3.9	5.81	3.82	22.8
23964CA/W33	3053964KH	320	440	90	3	1300	2750	670	850	334	426	2.5	0.18	3.7	5.5	3.6	40.6
23064CA/W33	3053164KH	320	480	121	4	1960	3850	630	800	338	462	3	0.24	2.8	4.2	2.8	75.6
24064CA/W33	4053164KH	320	480	160	4	2440	5050	500	670	338	462	3	0.31	2.2	3.3	2.2	99.7
23164CA/W33	3053764KH	320	540	176	5	3050	5500	480	600	342	518	4	0.31	2.1	3.2	2.1	162
24164CA/W33	4053764KH	320	540	218	5	3550	6650	480	600	342	518	4	0.39	1.7	2.6	1.7	196
22264CA/W33	53564KH	320	580	150	5	2990	4850	530	670	342	558	4	0.26	2.6	3.9	2.6	174
23264CA/W33	3053264KH	320	580	208	5	3900	6900	450	600	342	558	4	0.36	1.9	2.8	1.8	239
23264X2CA/W33	3053264X2KH	320	580	213	5	4000	7050	450	600	342	558	4	0.36	1.86	2.77	1.82	241
24264CA/W33		320	580	258	5	4300	8000	430	560	342	558	4	0.48	1.4	2.1	1.4	313
22364CA/W33	53664KH	320	670	200	7.5	4250	6550	400	530	342	478	4	0.33	2.1	3.1	2	356
23868CA/W33	3053868KH	340	420	60	2.1	655	1643	630	800	352	408	2	0.12	5.6	8.4	5.6	18.5
23968CA/W33	3053968KH	340	460	90	3	1330	2840	630	800	354	446	2.5	0.18	3.8	5.7	3.7	42.4
23068CA/W33	3053168KH	340	520	133	5	2280	4400	560	710	362	498	4	0.24	2.8	4.2	2.8	101
24068CA/W33	4053168KH	340	520	180	5	2920	6050	480	600	362	498	4	0.32	2.1	3.2	2.1	135
23168CA/W33	3053768KH	340	580	190	5	3600	6600	430	560	362	558	4	0.31	2.1	3.2	2.1	206
24168CA/W33	4053768KH	340	580	243	5	4250	7900	430	560	362	558	4	0.4	1.7	2.5	1.7	257
22268CA/W33	53568KH	340	620	165	6	3450	5600	430	560	368	592	5	0.28	2.4	3.6	2.4	226
23268CA/W33	3053268KH	340	620	224	6	4400	7800	400	530	368	592	5	0.36	1.9	2.8	1.8	295
24268CA/W33		340	620	280	6	5400	10000	380	500	368	592	5	0.47	1.4	2.1	1.4	390
22368CA/W33	53668KH	340	710	212	7.5	5000	7800	360	480	368	682	5	0.33	2.1	3.1	2	422
23872CA/W33	3053872KH	360	440	60	2.1	677	1767	600	750	372	428	1	0.11	6.1	9.1	6.3	20
22972CA/W33		360	480	72	3	1090	2350	630	800	374	466	2.5	0.14	4.94	7.36	4.83	37.1
23972CA/W33	3053972KH	360	480	90	3	1390	3050	600	750	374	466	2.5	0.17	4.1	6	4	44.7
23072CA/W33	3053172KH	360	540	134	5	2390	4700	530	670	382	518	4	0.24	2.8	4.2	2.8	106
24072CA/W33	4053172KH	360	540	180	5	2930	6100	450	600	382	518	4	0.32	2.1	3.2	2.1	139
23172CA/W33	3053772KH	360	600	192	5	3800	7100	400	530	382	578	4	0.31	2.2	3.2	2.1	217
24172CA/W33	4053772KH	360	600	243	5	4200	8000	400	530	382	578	4	0.4	1.7	2.5	1.7	264
22272CA/W33	53572KH	360	650	170	6	3553	5890	600	750	388	622	5	0.26	2.6	3.9	2.5	255
23272CA/W33	3053272KH	360	650	232	6	4800	8550	380	500	388	622	5	0.36	1.9	2.8	1.8	342
22372CA/W33	53672KH	360	750	224	7.5	5500	8650	360	480	388	718	5	0.33	2.1	3.1	2	503
23976CA/W33	3053976KH	380	520	106	4	1870	4100	530	670	398	502	3	0.18	3.7	5.5	3.6	65.4

23076CA/W33	3053176KH	380	560	135	5	2500	5100	530	630	402	538	4	0.22	3	4.5	3	113
24076CA/W33	4053176KH	380	560	180	5	3050	6600	430	560	402	538	4	0.29	2.3	3.4	2.3	148
23176CA/W33	3053776KH	380	620	194	5	4000	7600	400	500	402	598	4	0.3	2.2	3.3	2.2	229
24176CA/W33	4053776KH	380	620	243	5	4350	8450	400	500	402	598	4	0.38	1.8	2.6	1.7	275
22276CA/W33	53576KH	380	680	175	6	4050	6950	380	480	408	652	5	0.27	2.5	3.7	2.4	288
23276CA/W33	3053276KH	380	680	240	6	5150	9200	360	480	408	652	5	0.35	1.9	2.9	1.9	372
23276X2CA/W33	3053276X2KH	380	680	245	6	5250	9650	360	480	408	652	5	0.36	1.89	2.82	1.85	382
22376CA/W33	53676KH	380	780	230	7.5	5850	9300	340	450	412	748	6	0.32	2.1	3.2	2.1	554
24880CA/W33	4053880KH	400	500	100	2.1	1330	3500	600	800	412	488	2	0.18	3.76	5.59	3.67	45.3
23980CA/W33	3053980KH	400	540	106	4	1890	4250	530	630	418	522	3	0.18	3.9	5.7	3.8	69.1
23080CA/W33	3053180KH	400	600	148	5	2970	5900	480	600	422	578	4	0.23	3	4.4	2.9	146
24080CA/W33	4053180KH	400	600	200	5	3600	7600	400	500	422	578	4	0.31	2.2	3.3	2.2	193
23180CA/W33	3053780KH	400	650	200	6	4150	7900	380	480	428	622	5	0.29	2.3	3.4	2.3	257
24180CA/W33	4053780KH	400	650	250	6	4950	10100	380	480	428	622	5	0.37	1.8	2.7	1.8	316
22280CA/W33	53580KH	400	720	185	6	4550	7650	360	450	428	692	5	0.26	2.6	3.8	2.5	343
23280CA/W33	3053280KH	400	720	256	6	5800	10400	340	450	428	692	5	0.36	1.9	2.8	1.9	449
23280X2CA/W33		400	720	260	6	5850	10600	340	450	428	692	5	0.37	1.81	2.69	1.77	457
24280CA/W33		400	720	315	6	6950	13200	320	430	428	692	5	0.45	1.5	2.2	1.5	582
22380CA/W33	53680KH	400	820	243	7.5	6232	9880	360	450	436	784	6	0.3	2.3	3.4	2.2	650
23884CA/W33	3053884KH	420	520	75	2.1	1090	2710	530	630	432	508	2	0.12	5.42	8.08	5.3	34.8
23984CA/W33	3053984KH	420	560	106	4	1870	4250	500	600	438	542	3	0.17	4	6	3.9	71.6
23084CA/W33	3053184KH	420	620	150	5	2910	5850	450	560	442	598	4	0.23	2.9	4.3	2.8	151
24084CA/W33	4053184KH	420	620	200	5	3750	8100	380	480	442	598	4	0.31	2.2	3.2	2.1	199
23184CA/W33	3053784KH	420	700	224	6	5000	9400	340	450	448	672	5	0.31	2.2	3.3	2.2	341
24184CA/W33	4053784KH	420	700	280	6	6000	12000	340	450	448	672	5	0.38	1.8	2.6	1.7	421
22284CA/W33	53584KH	420	760	195	7.5	5000	8300	320	430	456	724	6	0.27	2.5	3.7	2.4	405
23284CA/W33	3053284KH	420	760	272	7.5	6450	11700	320	430	456	724	6	0.35	1.9	2.9	1.9	534
24284CA/W33		420	760	335	7.5	8150	16000	300	400	456	724	6	0.45	1.5	2.2	1.5	702
22384CA/W33	53684KH	420	850	250	9.5	6800	11000	300	400	460	810	8	0.33	2.1	3.1	2	704
23988CAF3/W33	3053988K	440	600	118	4	2190	4800	450	560	458	582	3	0.18	3.9	5.7	3.8	96.3
23088CAF3/W33	3053188K	440	650	157	6	3150	6350	430	530	468	622	5	0.23	2.9	4.3	2.8	173
24088CAF3/W33	4053188K	440	650	212	6	4150	9100	360	450	468	622	5	0.31	2.1	3.2	2.1	237
23188CAF3/W33	3053788K	440	720	226	6	5300	10300	320	430	468	692	5	0.3	2.2	3.3	2.2	360
24188CAF3/W33	4053788K	440	720	280	6	6000	12100	320	430	468	692	5	0.37	1.8	2.7	1.8	433
22288CAF3/W33	53588K	440	790	200	7.5	5300	8800	320	420	476	754	6	0.27	2.5	3.7	2.4	446
23288CAF3/W33	3053288K	440	790	280	7.5	6900	12800	300	400	476	754	6	0.35	1.9	2.9	1.9	594
23288X2CAF3/W33	3053288X2K	440	790	285	7.5	6900	12800	300	400	476	754	6	0.36	1.88	2.8	1.84	595
24288CAF3/W33		440	790	345	7.5	8500	17000	300	400	476	754	6	0.45	1.5	2.2	1.5	778
22388CAF3/W33	53688K	440	900	265	9.5	7650	12500	300	400	480	860	8	0.33	2.1	3.1	2	844
24892CAF3/W33		460	580	118	3	1700	4655	450	560	474	566	2.5	0.17	4	5.9	3.7	75.5
23992CAF3/W33	3053992K	460	620	118	4	2220	4950	430	530	478	602	3	0.17	4	5.9	3.9	100
24992X2CAF3/W33		460	620	140	4	2440	6000	420	520	478	602	3	0.21	3.22	4.8	3.15	122
23092CAF3/W33	3053192K	460	680	163	6	3450	7100	400	500	488	652	5	0.22	3.1	4.6	3	201
24092CAF3/W33	4053192K	460	680	218	6	4500	9950	340	430	488	652	5	0.29	2.3	3.4	2.3	266
23192CAF3/W33	3053792K	460	760	240	7.5	5700	10900	300	400	496	724	6	0.31	2.2	3.3	2.2	423
24192CAF3/W33	4053792K	460	760	300	7.5	6300	12400	300	400	496	724	6	0.39	1.7	2.6	1.7	512
22292CAF3/W33	53592K	460	830	212	7.5	5850	10200	300	400	496	794	6	0.27	2.5	3.7	2.4	530
23292CAF3/W33	3053292K	460	830	296	7.5	7350	13700	280	380	496	794	6	0.36	1.9	2.8	1.8	691

24292CAF3/W33		460	830	365	7.5	9500	19000	280	380	496	794	6	0.45	1.5	2.2	1.5	913
22392CAF3/W33	53692K	460	950	280	9.5	8500	14000	260	360	500	910	8	0.33	2.1	3.1	2	1000
23896CAF3/W33	3053896K	480	600	90	3	1368	3562	430	530	494	586	2.5	0.13	5.2	7.7	5	61
23996CAF3/W33	3053996K	480	650	128	5	2580	5850	400	500	502	628	4	0.18	3.8	5.7	3.7	121
23096CAF3/W33	3053196K	480	700	165	6	3800	7950	400	480	508	672	5	0.22	3.1	4.6	3	211
24096CAF3/W33	4053196K	480	700	218	6	4600	10200	320	430	508	672	5	0.3	2.3	3.4	2.2	270
23196CAF3/W33	3053796K	480	790	248	7.5	6050	11700	300	380	516	754	6	0.31	2.2	3.3	2.2	475
24196CAF3/W33	4053796K	480	790	308	7.5	7150	14600	300	380	516	754	6	0.39	1.7	2.6	1.7	567
22296CAF3/W33	53596H	480	870	224	7.5	6400	11200	280	380	516	834	6	0.27	2.5	3.7	2.4	613
23296CAF3/W33	3053296H	480	870	310	7.5	7850	14400	260	360	516	834	6	0.36	1.9	2.8	1.8	795
24296CAF3/W33		480	870	388	7.5	10600	21200	260	360	516	834	6	0.46	1.5	2.2	1.4	1080
22396CAF3/W33	53696K	480	980	290	9.5	9000	15000	260	360	520	940	8	0.33	2.1	3.1	2	1100
238/500CAF3/W33	30538/500K	500	620	90	3	1406	3800	430	530	514	606	2.5	0.12	5.6	8.4	5.6	62
239/500CAF3/W33	30539/500K	500	670	128	5	2460	5550	400	500	522	648	4	0.17	4	6	3.9	124
249/500CAF3/W33	40539/500K	500	670	170	5	3250	8000	380	480	522	648	4	0.24	2.9	4.3	2.8	175
230/500CAF3/W33	30531/500K	500	720	167	6	3750	8100	380	480	528	692	5	0.21	3.2	4.8	3.1	220
240/500CAF3/W33	40531/500K	500	720	218	6	4450	9900	300	400	528	692	5	0.3	2.3	3.4	2.2	276
231/500CAF3/W33	30537/500K	500	830	264	7.5	6850	13400	280	360	536	794	6	0.31	2.2	3.2	2.1	567
241/500CAF3/W33	40537/500K	500	830	325	7.5	8000	16000	280	360	536	794	6	0.39	1.7	2.6	1.7	666
222/500CAF3/W33	535/500K	500	920	243	7.5	7350	12900	280	360	536	884	6	0.28	2.4	3.6	2.3	758
232/500CAF3/W33	30532/500K	500	920	336	7.5	9000	16600	260	320	536	884	6	0.38	1.8	2.7	1.8	969
242/500CAF3/W33		500	920	412	7.5	11600	23200	260	320	536	884	6	0.47	1.4	2.2	1.4	1290
223/500CAF3/W33	536/500K	500	1030	300	12	9800	16300	240	300	546	984	10	0.32	2.1	3.1	2	1260
248/530CAF3/W33		530	650	118	3	1748	5035	380	480	544	636	2.5	0.15	4.5	6.7	4.5	86
239/530CAF3/W33	30539/530K	530	710	136	5	2930	6800	360	450	552	688	4	0.17	4	6	3.9	149
249/530CAF3/W33	40539/530K	530	710	180	5	3650	9000	340	430	552	688	4	0.24	2.9	4.3	2.8	208
230/530CAF3/W33	30531/530K	530	780	185	6	4400	9200	340	430	558	752	5	0.22	3.1	4.6	3	298
240/530CAF3/W33	40531/530K	530	780	250	6	5400	11800	280	360	558	752	5	0.31	2.2	3.3	2.2	390
231/530CAF3/W33	30537/530K	530	870	272	7.5	7150	14100	260	340	566	834	6	0.3	2.2	3.3	2.2	628
241/530CAF3/W33	40537/530K	530	870	335	7.5	8500	17500	260	340	566	834	6	0.38	1.8	2.6	1.7	773
222/530CAF3/W33	535/530K	530	980	258	9.5	8300	14600	260	320	574	936	8	0.28	2.4	3.6	2.4	914
232/530CAF3/W33	30532/530K	530	980	355	9.5	10100	18800	240	300	574	936	8	0.38	1.8	2.7	1.7	1170
242/530CAF3/W33		530	980	450	9.5	13400	27500	220	280	574	936	8	0.48	1.4	2.1	1.4	1610
223/530CAF3/W33	536/530K	530	1090	325	12	11000	18300	220	280	584	1036	10	0.33	2	3.1	2	1530
26/540CAF3/W33X		540	820	195	6	5000	10700	320	400	591	776	5	0.22	3	4.5	2.9	377
26/545CAF3/W33X		545	755	230	4	4550	10800	320	400	563	737	3	0.28	2.45	3.65	2.4	301
238/560CAF3/W33	30538/560K	560	680	90	3	1650	4450	360	460	564	666	2.5	0.11	5.97	8.88	5.83	66.1
239/560CAF3/W33	30539/560K	560	750	140	5	3100	7250	340	430	582	728	4	0.16	4.1	6.1	4	172
249/560CAF3/W33	40539/560K	560	750	190	5	4050	10200	320	400	582	728	4	0.24	2.9	4.3	2.8	246
230/560CAF3/W33	30531/560K	560	820	195	6	5000	10700	320	400	588	792	5	0.22	3	4.5	2.9	344
240/560CAF3/W33	40531/560K	560	820	258	6	5950	13300	260	340	588	792	5	0.3	2.2	3.3	2.2	440
231/560CAF3/W33	30537/560K	560	920	280	7.5	7850	15500	240	320	596	884	6	0.3	2.3	3.4	2.2	727
241/560CAF3/W33	40537/560K	560	920	355	7.5	9400	19600	240	320	596	884	6	0.39	1.8	2.6	1.7	886
222/560CAF3/W33	535/560K	560	1030	272	9.5	9000	16000	240	300	604	986	8	0.28	2.4	3.6	2.3	1060
232/560CAF3/W33	30532/560K	560	1030	365	9.5	10900	20500	220	280	604	986	8	0.36	1.9	2.8	1.8	1320
242/560CAF3/W33		560	1030	475	9.5	14600	30000	220	260	604	986	8	0.48	1.4	2.1	1.4	1860
223/560CAF3/W33	536/560K	560	1150	335	12	12000	20400	200	260	614	1096	10	0.32	2.1	3.1	2.1	1750
26/580CAF3/W33X		580	780	130	5	2740	6500	340	430	627	742	4	0.15	4.6	6.9	4.5	178

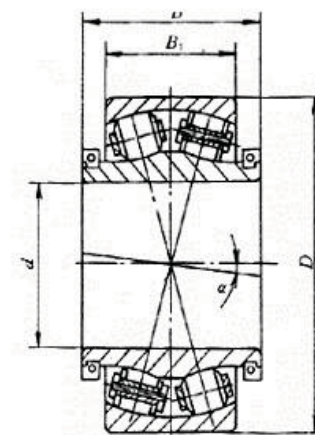
239/600CAF3/W33	30539/600K	600	800	150	5	3450	8100	320	400	622	778	4	0.17	3.9	5.9	3.9	205
249/600CAF3/W33	40539/600K	600	800	200	5	4500	11400	320	380	622	778	4	0.23	2.9	4.4	2.9	292
26/600CAF3/W33X		600	820	175	6	3800	8850	300	380	654	776	5	0.18	3.7	5.5	3.6	271
230/600CAF3/W33	30531/600K	600	870	200	6	5450	12200	300	360	628	842	5	0.21	3.3	4.8	3.2	389
240/600CAF3/W33	40531/600K	600	870	272	6	6600	15100	240	320	628	842	5	0.3	2.2	3.3	2.2	529
231/600CAF3/W33	30537/600K	600	980	300	7.5	8750	17500	220	280	636	944	6	0.3	2.3	3.4	2.2	898
241/600CAF3/W33	40537/600K	600	980	375	7.5	10400	21900	220	280	636	944	6	0.39	1.8	2.6	1.7	1050
222/600CAF3/W33	535/600K	600	1090	280	9.5	9650	17300	200	280	644	1046	8	0.27	2.5	3.7	2.4	1180
232/600CAF3/W33	30532/600K	600	1090	388	9.5	12700	24900	200	260	644	1046	8	0.36	1.9	2.8	1.8	1590
242/600CAF3/W33		600	1090	488	9.5	16000	33500	180	260	644	1046	8	0.47	1.5	2.2	1.4	2130
238/630CAF3/W33	30538/630K	630	780	112	4	2080	5795	320	400	648	762	3	0.12	5.6	8.4	5.6	120
248/630CAF3/W33		630	780	150	4	3050	8800	320	380	648	762	3	0.17	4.07	6.06	3.98	158
239/630X2CAF3/W		630	850	145	6	3450	7950	300	380	685	805	5	0.15	4.4	6.6	4.3	227
239/630CAF3/W33	239/630K	650	850	165	6	4000	9350	300	360	658	822	5	0.18	3.8	5.6	3.7	259
249/630CAF3/W33	40539/630K	650	850	212	6	5200	12900	280	360	658	822	5	0.24	2.8	4.2	2.8	371
230/630CAF3/W33	30531/630K	650	920	212	7.5	5900	12700	280	340	666	884	6	0.22	3.1	4.7	3.1	468
240/630CAF3/W33	40531/630K	650	920	290	7.5	7550	17700	220	300	666	884	6	0.3	2.2	3.3	2.2	637
231/630CAF3/W33	30537/630K	650	1030	315	7.5	9600	19400	200	260	666	994	6	0.3	2.3	3.4	2.2	1040
241/630CAF3/W33	40537/630K	650	1030	400	7.5	11300	23900	200	260	666	994	6	0.38	1.8	2.7	1.7	1250
222/630CAF3/W33	535/630K	650	1150	300	12	11000	20000	180	240	684	1096	10	0.28	2.4	3.6	2.4	1440
232/630CA/W33	30532/630K	650	1150	412	12	13400	25600	180	240	684	1096	10	0.36	1.9	2.8	1.8	1850
242/630CAF3/W33		650	1150	515	12	17600	37500	180	240	684	1096	10	0.47	1.5	2.2	1.4	2510
238/670CAF3/W33	30538/670K	670	820	112	4	2137	6080	280	360	688	802	3	0.11	6.1	9.1	6.3	130
239/670CA/W33	30539/670K	670	900	170	6	4350	10300	260	340	698	872	5	0.17	3.9	5.8	3.8	300
249/670CAF3/W33	40539/670K	670	900	230	6	5700	14600	260	340	698	872	5	0.24	2.8	4.2	2.8	433
239/670X1CAF3/W		670	920	170	6	4350	10300	260	340	726	874	5	0.17	3.9	5.8	3.8	343
230/670CAF3/W33	30531/670K	670	980	230	7.5	6850	15000	240	320	706	944	6	0.22	3.1	4.7	3.1	571
240/670CAF3/W33	40531/670K	670	980	308	7.5	8450	19500	200	260	706	944	6	0.3	2.2	3.3	2.2	773
231/670CAF3/W33	30537/670K	670	1090	336	7.5	10600	21600	190	240	706	1054	6	0.3	2.2	3.3	2.2	1230
241/670CAF3/W33	40537/670K	670	1090	412	7.5	12400	26500	190	240	706	1054	6	0.37	1.8	2.7	1.8	1440
222/670CAF3/W33	535/670K	670	1220	315	12	12200	22400	190	240	724	1166	10	0.27	2.5	3.7	2.4	1700
232/670CAF3/W33	30532/670K	670	1220	438	12	14900	28700	170	220	724	1166	10	0.37	1.8	2.7	1.8	2210
242/670CAF3/W33		670	1220	545	12	19600	40500	170	200	724	1166	10	0.47	1.4	2.2	1.4	2960
26/675CAF3/W33X		675	920	153	6	3950	8950	180	260	732	874	5	0.15	4.6	6.9	4.5	296
26/680CAF3/W33X		680	980	220	7.5	6050	14000	160	200	716	944	6	0.21	3.17	4.72	3.1	550
239/710CAF3/W33	30539/710K	710	950	180	6	4800	11700	240	300	738	922	5	0.17	3.9	5.8	3.8	352
249/710CAF3/W33	40539/710K	710	950	243	6	5576	14820	200	280	738	922	5	0.22	3	4.6	2.8	495
230/710CAF3/W33	30531/710K	710	1030	236	7.5	7100	15800	240	280	746	994	6	0.22	3.1	4.6	3	647
240/710CAF3/W33	40531/710K	710	1030	315	7.5	8850	20700	190	240	746	994	6	0.29	2.3	3.4	2.2	861
231/710CAF3/W33	30537/710K	710	1150	345	9.5	11800	24500	180	240	785	1083	8	0.29	2.3	3.4	2.3	1420
241/710CAF3/W33	40537/710K	710	1150	438	9.5	13900	30500	170	220	754	1106	8	0.38	1.8	2.6	1.7	1730
222/710CAF3/W33	535/710K	710	1280	325	12	13700	24500	170	220	764	1226	10	0.27	2.5	3.7	2.4	1900
232/710CAF3/W33	30532/710K	710	1280	450	12	15700	30500	160	200	764	1226	10	0.36	1.9	2.8	1.8	2470
242/710CAF3/W33		710	1280	560	12	20800	43000	160	200	764	1226	10	0.46	1.5	2.2	1.5	3300
26/730CAF3/W33X		730	980	170	6	4600	10700	200	260	789	932	5	0.15	4.4	6.6	4.3	347
238/750CAF3/W33	30538/750K	750	920	128	5	2783	8075	240	320	772	898	4	0.11	6.1	9.1	6.3	135
239/750CAF3/W33	30539/750K	750	1000	185	6	5250	12800	220	280	778	972	5	0.17	4.1	6	4	398
239/750X2CAF3/W		750	1000	200	6	5250	12800	220	280	810	952	5	0.17	4.1	6	4	433

249/750CAF3/W33	40539/750K	750	1000	250	6	7750	17200	190	260	778	972	5	0.22	3	4.6	3.2	560
230/750CAF3/W33	30531/750K	750	1090	250	7.5	7750	17200	220	260	786	1054	6	0.22	3.1	4.6	3	768
240/750CAF3/W33	40531/750K	750	1090	335	7.5	10100	24000	180	220	786	1054	6	0.29	2.3	3.4	2.2	1030
231/750CAF3/W33	30537/750K	750	1220	365	9.5	13100	27300	160	200	826	1152	8	0.29	2.3	3.4	2.3	1700
241/750CAF3/W33	40537/750K	750	1220	475	9.5	17600	40500	160	200	826	1152	8	0.38	1.8	2.6	1.7	2290
222/750CAF3/W33	535/750K	750	1360	345	15	14600	27000	140	190	814	1296	12	0.27	2.5	3.7	2.4	2340
232/750CAF3/W33	30532/750K	750	1360	475	15	17700	35500	140	190	814	1296	12	0.36	1.9	2.8	1.8	2980
26/760CAF3/W33X		760	1140	285	7.5	8600	19200	200	260	828	1081	6	0.23	3	4.4	2.9	1010
26/760CAF3/W33X		760	1140	325	7.5	10000	23800	200	240	796	1104	6	0.24	2.79	4.15	2.73	1104
26/780CAF3/W33X		780	1180	285	7.5	9850	21100	220	260	849	1121	6	0.22	3.1	4.6	3	1100
26/780CAF3/W33X		780	1220	375	9.5	12800	28700	210	240	824	1176	8	0.3	2.25	3.34	2.2	1615
26/790CAF3/W33X		790	1100	310	7.5	8650	21000	220	260	826	1064	6	0.24	2.76	4.11	2.7	857
248/800CAF3/W33		800	980	180	5	3933	12255	180	240	822	958	4	0.15	4.5	6.7	4.5	300
239/800CAF3/W33	30539/800K	800	1060	195	6	5600	13700	220	260	828	1032	5	0.17	4	6	3.9	462
249/800CAF3/W33	40539/800K	800	1060	258	6	7500	20000	220	240	828	1032	5	0.23	3	4.4	2.9	646
230/800CAF3/W33	30531/800K	800	1150	258	7.5	8350	19100	200	240	836	1114	6	0.21	3.2	4.7	3.1	870
230/800X2CAF3/W		800	1150	280	7.5	8350	19100	180	220	836	1114	6	0.21	3.2	4.7	3.1	941
240/800CAF3/W33	40531/800K	800	1150	345	7.5	10900	26300	160	200	836	1114	6	0.27	2.5	3.7	2.5	1130
231/800CAF3/W33	30537/800K	800	1280	375	9.5	13800	29200	150	190	844	1236	8	0.28	2.4	3.6	2.3	1870
241/800CAF3/W33	40537/800K	800	1280	475	9.5	17480	38475	130	170	844	1236	8	0.35	1.9	2.9	1.8	2300
232/800CAF3/W33	30532/800K	800	1420	488	15	20300	41000	130	170	864	1356	12	0.35	1.9	2.8	1.9	3250
238/850CAF3/W33	30538/850K	850	1030	136	5	3173	9500	190	260	872	1008	4	0.11	6.1	9.1	6.3	240
239/850CAF3/W33	30539/850K	850	1120	200	6	6100	15200	190	240	878	1092	5	0.16	4.2	6.2	4.1	523
249/850CAF3/W33	40539/850K	850	1120	272	6	7760	21660	170	220	878	1092	5	0.22	3	4.6	2.8	740
230/850CAF3/W33	30531/850K	850	1220	272	7.5	9300	21400	180	220	886	1184	6	0.21	3.2	4.8	3.1	1020
230/850X2CAF3/W		850	1220	290	7.5	9150	22000	180	220	886	1184	6	0.23	2.98	4.44	2.92	1103
230/850X2CAF3/W		850	1220	305	7.5	9300	23500	170	220	886	1184	6	0.22	3.1	4.6	3	1170
240/850X2CAF3/W		850	1220	330	7.5	11000	26900	160	210	886	1184	6	0.23	2.9	4.31	2.83	1203
240/850CAF3/W33	40531/850K	850	1220	365	7.5	11600	28300	150	190	886	1184	6	0.28	2.4	3.6	2.4	1350
231/850CAF3/W33	30537/850K	850	1360	400	12	15800	34000	130	180	941	1279	10	0.28	2.4	3.5	2.3	2260
241/850CAF3/W33	40537/850K	850	1360	500	12	21200	48000	130	170	941	1279	10	0.36	1.9	2.8	1.8	2970
232/850CAF3/W33	30532/850K	850	1500	515	15	22300	45500	120	160	914	1436	12	0.35	1.9	2.8	1.9	3890
248/900CAF3/W33		900	1090	190	5	4427	14535	170	220	922	1068	4	0.14	4.8	7.2	4.5	370
239/900CAF3/W33	30539/900K	900	1180	206	6	6600	16700	180	220	928	1152	5	0.16	4.3	6.4	4.2	591
249/900CAF3/W33	40539/900K	900	1180	280	6	9150	24500	170	220	928	1152	5	0.22	3.1	4.6	3	852
230/900CAF3/W33	30531/900K	900	1280	280	7.5	9850	22800	160	200	936	1244	6	0.2	3.3	4.9	3.2	1160
230/900X2CAF3/W		900	1280	305	7.5	10300	24800	160	200	936	1244	6	0.2	3.3	4.9	3.2	1250
240/900CAF3/W33	40531/900K	900	1280	375	7.5	12800	31500	140	180	936	1244	6	0.28	2.4	3.6	2.4	1520
231/900CAF3/W33	30537/900K	900	1420	412	12	17000	37000	120	160	993	1338	10	0.28	2.4	3.6	2.3	2490
232/900CAF3/W33	30532/900K	900	1580	515	15	23400	47500	110	140	964	1516	12	0.33	2	3	2	4300
239/950CAF3/W33	30539/950K	950	1250	224	7.5	7600	19900	160	200	986	1214	6	0.16	4.2	6.3	4.1	732
249/950CAF3/W33	40539/950K	950	1250	300	7.5	8740	24700	140	180	986	1214	6	0.21	3.2	4.8	3.2	1000
26/950CAF3/W33X		950	1280	260	7.5	8650	22200	140	180	986	1244	6	0.17	3.98	5.92	3.89	921
230/950X1CAF3/W		950	1330	300	7.5	8400	21200	130	170	986	1294	6	0.18	3.66	5.46	3.58	1214
230/950CAF3/W33	30531/950K	950	1360	300	7.5	11300	26500	150	190	986	1324	6	0.21	3.2	4.8	3.2	1400
230/950X2CAF3/W		950	1360	320	7.5	11500	28000	130	180	986	1324	6	0.2	3.33	4.96	3.25	1447
240/950CAF3/W33	40531/950K	950	1360	412	7.5	14500	36500	120	160	986	1324	6	0.28	2.4	3.6	2.3	1880
230/950X1CAF3/W		950	1400	300	7.5	11400	25200	120	160	1026	1336	6	0.2	3.4	5.1	3.3	1570

26/950CAF3/W33X		950	1400	380	7.5	14100	33500	110	140	986	1364	6	0.24	2.77	4.13	2.71	1937
232/950CAF3/W33	30532/950K	950	1660	530	15	24700	50500	100	130	1014	1596	12	0.32	2.1	3.1	2.1	4800
238/1000CAF3/W3	30538/1000K	1000	1220	165	6	4427	13585	160	200	1028	1192	5	0.12	5.6	8.4	5.6	410
248/1000CAF3/W3		1000	1220	218	6	6550	20800	160	200	1028	1192	5	0.16	4.3	6.4	4.2	567
239/1000CAF3/W3	30539/1000K	1000	1320	236	7.5	8200	21700	150	190	1036	1284	6	0.16	4.3	6.4	4.2	881
239/1000X2CAF3/		1000	1320	258	7.5	8500	22600	150	190	1036	1284	6	0.16	4.23	6.3	4.14	911
249/1000CAF3/W3	40539/1000K	1000	1320	315	7.5	9880	27550	140	170	1036	1284	6	0.21	3.2	4.8	3.2	1200
230/1000CAF3/W3	30531/1000K	1000	1420	308	7.5	11900	28100	140	170	1036	1384	6	0.2	3.3	4.9	3.2	1560
230/1000CAF3/W3	30531/1000K	1000	1420	320	7.5	11500	28400	120	160	1036	1384	6	0.2	3.5	5.1	3.4	1630
240/1000CAF3/W3	40531/1000K	1000	1420	412	7.5	15300	38500	110	150	1036	1384	6	0.27	2.5	3.7	2.4	2010
231/1000CAF3/W3	30537/1000K	1000	1580	462	12	20330	45600	100	140	1054	1526	10	0.28	2.4	3.6	2.5	3500
241/1000CAF3/W3	40537/1000K	1000	1580	580	12	21375	47500	100	130	1054	1526	10	0.35	1.9	2.9	1.8	4300
238/1060CAF3/W3	30538/1060K	1060	1280	165	6	4530	14250	140	180	1088	1252	5	0.11	6.1	9.1	6.3	435
248/1060CAF3/W3		1060	1280	218	6	5795	19000	140	180	1088	1252	5	0.14	4.8	7.2	4.5	570
239/1060CAF3/W3	30539/1060K	1060	1400	250	7.5	9300	24400	130	170	1096	1364	6	0.16	4.1	6.1	4	1030
249/1060CAF3/W3	40539/1060K	1060	1400	335	7.5	10925	30875	130	170	1096	1364	6	0.21	3.2	4.8	3.2	1400
230/1060CAF3/W3	30531/1060K	1060	1500	325	9.5	13000	31500	120	160	1104	1456	8	0.21	3.3	4.9	3.2	1790
230/1060X2CAF3/		1060	1500	340	9.5	13000	31500	110	140	1104	1456	8	0.21	3.3	4.9	3.2	1850
240/1060CAF3/W3	40531/1060K	1060	1500	438	9.5	16800	43000	100	130	1104	1456	8	0.28	2.4	3.6	2.4	2410
238/1120CAF3/W3	30538/1120K	1120	1360	180	6	6200	18700	140	180	1148	1332	5	0.11	5.97	8.89	5.84	536
248/1120CAF3/W3		1120	1360	243	6	6887	22800	130	170	1148	1332	5	0.15	4.5	6.7	4.5	735
239/1120CAF3/W3	30539/1120K	1120	1460	250	7.5	9500	26000	120	160	1156	1424	6	0.15	4.4	6.6	4.3	1100
249/1120CAF3/W3	40539/1120K	1120	1460	335	7.5	11115	32775	110	140	1156	1424	6	0.2	3.4	5	3.2	1500
230/1120CAF3/W3	30531/1120K	1120	1580	345	9.5	15400	38000	110	140	1211	1505	8	0.2	3.4	5	3.3	2120
230/1120X2CAF3/		1120	1580	360	9.5	14700	36000	110	140	1211	1505	8	0.2	3.3	4.9	3.2	2230
230/1120X2CAF3/		1120	1580	380	9.5	15500	38500	100	130	1211	1505	8	0.21	3.2	4.8	3.2	2330
240/1120CAF3/W3	40531/1120K	1120	1580	462	9.5	18700	49500	95	120	1211	1505	8	0.27	2.5	3.7	2.5	2790
238/1180CAF3/W3	30538/1180K	1180	1420	180	6	5576	17670	120	160	1208	1392	5	0.11	6.1	9.1	6.3	575
248/1180CAF3/W3		1180	1420	243	6	7324	25650	120	160	1208	1392	5	0.14	4.8	7.2	4.5	770
239/1180CAF3/W3	30539/1180K	1180	1540	272	7.5	10545	29450	110	140	1216	1504	6	0.16	4.2	6.3	4	1400
249/1180CAF3/W3	40539/1180K	1180	1540	355	7.5	12635	37050	100	130	1216	1504	6	0.2	3.4	5	3.2	1800
240/1180CAF3/W3	40531/1180K	1180	1660	475	9.5	20200	52500	85	110	1224	1616	8	0.27	2.5	3.7	2.4	3180
26/1200CAF3/W33		1200	1700	410	9.5	17000	44000	80	100	1294	1622	8	0.21	3.2	4.8	3.1	2980
26/1220CAF3/W33		1220	1680	380	9.5	15800	40500	80	100	1315	1603	8	0.19	3.5	5.2	3.4	2500
248/1250CAF3/W3	40538/1250K	1250	1500	250	6	8800	30000	90	120	1334	1416	5	0.14	4.7	7	4.6	918
239/1250CAF3/W3	30539/1250K	1250	1630	280	7.5	11600	31500	85	110	1338	1562	6	0.15	4.4	6.6	4.3	1540
249/1250CAF3/W3	40539/1250K	1250	1630	375	7.5	15600	45000	85	110	1338	1562	6	0.22	3.1	4.7	3.1	2150
230/1250CAF3/W3	30531/1250K	1250	1750	375	9.5	17005	42750	80	100	1294	1706	8	0.19	3.6	5.3	3.6	2840
230/1250X2CAF3/		1250	1750	390	9.5	17400	44500	80	100	1346	1671	8	0.2	3.3	5	3.3	2860
230/1250X2CAF3/		1250	1750	400	9.5	18000	46000	75	100	1346	1671	8	0.2	3.4	5.1	3.3	2970
240/1250CAF3/W3	40531/1250K	1250	1750	500	9.5	21000	59500	75	100	1294	1706	8	0.25	2.7	4	2.6	3700
248/1320CAF3/W3		1320	1600	280	6	9291	31825			1348	1572	5	0.15	4.5	6.7	4.5	1160
239/1320CAF3/W3	30539/1320K	1320	1720	300	7.5	13600	38000			1356	1684	6	0.16	4.34	6.46	4.24	1900
239/1320X2CAF3/		1320	1720	350	7.5	13500	38500			1411	1650	6	0.17	4	5.9	3.9	2100
249/1320CAF3/W3	40539/1320K	1320	1720	400	7.5	15295	46550			1356	1684	6	0.21	3.2	4.8	3.2	2500
240/1320X2CAF3/		1320	1850	480	12	21200	58500			1429	1760	10	0.22	3	4.5	2.9	4060
240/1320CAF3/W3	40531/1320K	1320	1850	530	12	22600	63500			1374	1796	10	0.26	2.6	3.9	2.6	4400
26/1350CAF3/W33		1350	1800	500	7.5	19200	56500			1442	1728	6	0.25	2.7	4	2.6	3660

26/1370CAF3/W33		1370	1780	265	9.5	11900	31500			1471	1701	8	0.13	5.1	7.7	5	1650
248/1400CAF3/W3		1400	1700	300	7.5	12000	40500			1498	1602	6	0.16	4.3	6.5	4.3	1500
239/1400CAF3/W3	30539/1400K	1400	1820	315	9.5	14300	40500			1502	1740	8	0.16	4.3	6.5	4.2	2140
249/1400CAF3/W3	40539/1400K	1400	1820	425	9.5	20000	58500			1502	1740	8	0.22	3.1	4.6	3	3020
26/1400CAF3/W33		1400	1900	440	12	18000	54500			1513	1809	10	0.2	3.3	5	3.3	3710
26/1400CAF3/W33		1400	1900	530	12	22700	64500			1513	1809	10	0.25	2.7	4	2.6	4510
240/1400CAF3/W3	40531/1400K	1400	1950	545	12	24500	65000			1454	1896	10	0.25	2.7	4	2.6	4900
26/1470CAF3/W33		1470	1900	375	12	15500	48000			1585	1809	10	0.16	4.3	6.4	4.2	2770
248/1500CAF3/W3	40538/1500K	1500	1820	315	7.5	11115	38475			1536	1684	6	0.21	3.2	4.8	3.2	1700
26/1500CAF3/W33		1500	1900	375	12	15500	48000			1617	1809	10	0.16	4.3	6.4	4.2	2540
239/1500CAF3/W3	30539/1500K	1500	1950	335	9.5	16000	47500			1544	1784	6	0.16	4.2	6.3	4.1	2800
249/1500CAF3/W3	40539/1500K	1500	1950	450	9.5	19665	59850			1544	1784	6	0.15	4.5	6.7	4.5	3550
26/1590CAF3/W33		1590	2000	380	9.5	16100	50000			1700	1916	8	0.15	4.5	6.7	4.4	2770

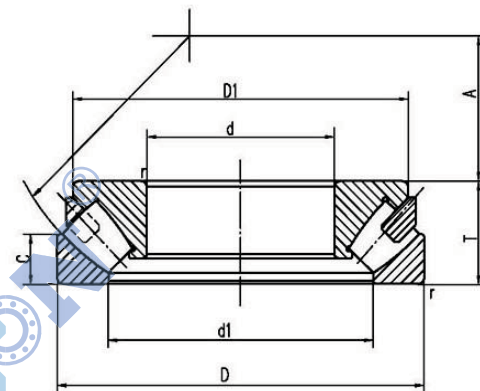
Split Spherical Roller Bearing



Bearing Numbers	Boundary dimensions(mm)				Basic load rating(kN)		Abutment and fillet dimensions(mm)				Value				Weight(kg)
	d	D	B	C	Cr	Cor	r ₁ , 2min	r ₃ , 4min	d ₁	D ₁	e	Y ₁	Y ₂	Y ₀	Refer
24124CAD/W33	120	200	142	80	552	900	2	2	166	169	0.37	1.8	2.7	1.8	17
24128X3CAD/W33	140	230	102	53	368	600	2	2	180	190	0.22	3	4.6	2.8	14
23136X2CAD/W33	180	300	125	74	713	1200	2.1	2.1	220	248	0.24	2.8	4.2	2.8	30
23256CAD/W33	280	500	260	176	2710	4650	5	5	419	439	0.35	1.9	2.9	1.9	175
23160CAD/W33	300	500	240	160	2710	4900	5	5	418	434	0.3	2.3	3.4	2.2	150
23072CAD/W33	360	540	220	134	2250	4500	5	5	476	482	0.23	2.9	4.4	2.8	155
23080CAD/W33	400	600	240	148	2880	5850	5	5	522	541	0.23	2.9	4.4	2.8	205
23084CAD/W33	420	620	238	150	2880	5850	6	6	542	562	0.22	3	4.6	2.8	215
23092CAD/W33X3	460	700	245	165	3280	6550	6	6	604	635	0.21	3.2	4.8	3.2	340
241/560X3CAF1D/W33	560	870	330	200	5060	11000	6	6	733	786	0.22	3	4.6	2.8	580
241/600CAF1D/W33	600	980	515	375	10400	21600	7.5	7.5	811	833	0.35	1.9	2.9	1.8	1350

230/630CAF1D/W33	630	920	310	212	5640	12000	7.5	7.5	798	837	0.21	3.2	4.8	3.2	630
240/670CAF1D/W33	670	980	350	230	6440	14000	7.5	7.5	860	890	0.21	3.2	4.8	3.2	800
239/710CAF1D/W33X	710	950	330	180	3750	9900	6	6	882	884	0.18	3.75	5.6	3.7	581
230/710CAF1D/W33	710	1030	360	236	7020	15600	7.5	7.5	901	939	0.21	3.2	4.8	3.2	880
249/750CAF1D/W33	750	1000	360	250	6330	17000	6	6	900	916	0.22	3	4.6	2.8	710
240/750CAF1D/W33	750	1090	475	335	9950	24000	7.5	7.5	938	969	0.28	2.4	3.6	2.5	1300
249/800CAF1D/W33	800	1060	370	258	6900	18600	6	6	955	968	0.21	3.2	4.8	3.2	810
249/850CAF1D/W33	850	1120	390	272	7360	20800	6	6	1008	1028	0.22	3	4.6	2.8	830
239/850X3CAF1D/W33	850	1180	331	206	6440	17000	6	6	1070	1100	0.15	4.5	6.7	4.5	880
240/850CAF1D/W33X	850	1220	540	365	9000	24000	7.5	7.5	1070	1096	0.27	2.5	3.7	2.4	243
230/850X3CAF1D/W33	850	1280	430	280	10100	23200	7.5	7.5	1120	1177	0.2	3.4	5	3.2	1550
240/850X3CAF1D/W33	850	1280	540	375	12400	31000	7.5	7.5	1123	1147	0.26	2.6	3.9	2.5	2350
249/900CAF1D/W33	900	1180	400	280	8170	22800	6	6	1058	1086	0.21	3.2	4.8	3.2	1100
249/950CAF1D/W33	950	1250	420	300	8970	25500	7.5	7.5	1130	1150	0.21	3.2	4.8	3.2	1300
249/1060CAF1D/W33	1060.4	1400	490	335	11300	32000	7.5	7.5	1253	1285	0.21	3.2	4.8	3.2	1870
230/1060X3CAF1D/W33	1060	1460	500	335	11500	33500	7.5	7.5	1330	1350	0.2	3.4	5	3.2	2470
249/1120CAF1D/W33	1120	1460	500	335	11500	33500	7.5	7.5	1330	1350	0.2	3.4	5	3.2	2070
230/1120X3CAF1D/W33	1120	1540	525	355	14400	44000	7.5	7.5	1401	1420	0.2	3.4	5	3.2	2850
230/1250CAF1D/W33	1250	1750	560	375	19600	50000	9.5	9.5	1560	1607	0.19	3.6	5.3	3.6	3800

Thrust Spherical Roller Bearings



Bearing Numbers		Boundary dimensions(mm)									Basic load rating(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)			Weight(kg)
New	Old	d	D	H	$r_{1, 2min}$	d_1	D_1	B	C	S	C_a	C_{oa}	Grease	Oil	$d_{a min}$	$D_{a max}$	$r_{a max}$	Refer
29320	9039320	100	170	42	1.5	152	128	26.2	20.8	58	410	1280	1500	2000	130	150	1.5	3.91
	9069420	100	210	67	3	190	146	45	32	62	590	860	1000	1400	150	175	2.5	10.5
29420	9039420	100	210	67	3	185	144	43	33	62	840	2400	1100	1600	150	175	2.5	10.5
	9069322	110	190	48	2	175	135	30	24	64	347	970	1100	1600				5.46
29322	9039322	110	190	48	2	175	143	16	23	64	530	1710	1300	1800	145	165	2	6.94
	9069422	110	230	73	2	195	150	43	35	69	545	1497	950	1400				12.8
29422	9039422	110	230	73	3	208	155.5	26	34.4	69	1010	2930	950	1400	165	190	2.5	18.1
	9069324	120	210	54	2.5	188	161	34	30	57	380	680	1000	1600	160	181	2	6.88
29324	9039324	120	210	54	2.1	187.5	156.5	34	27	70	645	2100	1100	1600	160	180	2	7.3
	9069424	120	250	78	4	222	181	48	38	74	720	1100	750	1100	180	209	3	19.5
29424	9039424	120	250	78	4	222	172	50.5	37	74	1160	3400	900	1300	180	205	3	17.1
	9069326	130	225	58	2.5	200	170	37	29	76	440	750	950	1500	175	194	2	8.26
29326	9039326	130	225	58	2.1	200	166	36.5	28	76	740	2450	1000	1500	170	195	2	8.48
	9069426	130	270	85	4	240	190	55	44	79	760	1100	700	1100	195	227	3	23

29426	9039426	130	270	85	4	246	183	31	39.7	81	1330	3900	850	1200	195	225	3	28.3
29328	9039328	140	240	60	2.1	216.5	179	38.5	30	82	840	2810	950	1400	185	205	2	10.4
	9069428	140	280	85	4	247	203	55	47	64	825	1120	670	950	205	236	3	22.7
29428	9039428	140	280	85	4	244.5	195.5	54	42	86	1370	4200	850	1200	205	235	3	22.2
29230	9039230	150	215	39	1.5		177				351	1560		1800				4.6
	9069330	150	250	60	2.1	220	185	36	31	87	525	1670		1200				10.2
29330	9039330	150	250	60	2.1	240	194	20	29	87	870	2900	950	1400	195	215	2	11.5
	9069430	150	300	90	4	270	220	60	48	69	995	1760	630	900	220	253	3	27.3
29430	9039430	150	300	90	4	266	206	58	44	92	1580	4900	800	1100	220	250	3	27.9
29232	9039232	160	225	39	1.5		188				362	1650		1700				4.8
	9069332	160	270	67	3	240	200	45	32	92	610	2240		1100				13.5
29332	9039332	160	270	67	3	243	203	42	33	92	1010	3400	850	1200	210	235	2.5	14.3
	9069432	160	320	95	5	275	234	61	53	74	1000	1720	560	800	235	270	4	33.3
29432	9039432	160	320	95	5	285	218.5	34	46.9	99	1740	5400	750	1000	230	265	4	32.8
29234	9039234	170	240	42	1.5		201				408	1900		1600				6
29334	9039334	170	280	67	3	260.3	216	43.5	31.7	96	1050	3500	850	1200	220	245	2.5	15.7
	9069434	170	340	103	5	310	243	71	48	104	1210	2200	530	750	250	286	3	40.7
29434	9039434	170	340	103	5	302	235	65.5	50	104	1680	5800	700	950	245	285	4	39.7
29236	9039236	180	250	42	1.5	239	209	15	21.3	97	420	2010	900	1600	215	227	1.5	7.05
	9069336	180	300	73	3	270	225	46	36	103	790	2731	630	900	235	262	2.5	18.3
29336	9039336	180	300	73	3	275	229	25	34.4	103	1230	4200	800	1100	235	260	2.5	19.9
	9069436	180	360	109	5	308	265	67	58	82	1210	2200	550	750	265	304	4	42.3
29436	9039436	180	360	109	5	326	249.5	39	51.2	110	1870	6500	670	900	265	304	4	64.2
	9069238	190	270	48	2	250	224	30	24	110	420	1746		1000				8
29238	9039238	190	270	48	2	255	226		25.5	103	518	2200		1400	225	243	2	8.7
29338	9039338	190	320	78	4	288.5	244	49	38	110	1370	4700	750	1000	250	275	3	23
29438	9039438	190	380	115	5	345	263	41	53.7	117	2100	7450	630	850	275	320	4	75.6
29240	9039240	200	280	48	2	266	236	15	24	108	540	2310		1400	235	255	2	8.5
	9069340	200	340	85	4									800				29.5
29340	9039340	200	340	85	4	306.5	257	53.5	41	116	1570	5450	700	950	265	295	3	28.5
	9069440	200	400	122	5	360	278	62	62	122	1740	6054		710				60.6
29440	9039440	200	400	122	5	360	267.5	44	56.7	122	2290	8150	600	800	290	335	4	83.5
	9069244	220	300	48	6	286	260	31	24	117	504	1932	850	1300	260	273	5	8
29244	9039244	220	300	48	6	285	254	15	24	117	560	2500		1300	260	275	5	9.2
	9069344	220	360	85	6	320	270	52	44	125	970	3768		800			5	32.5
29344	9039344	220	360	85	6	330	277.5	29	40.7	125	1340	5200	700	950	285	315	5	28.6
	9069444	220	420	122	6	400	330	78	59	142	1830	6624		710	335	378	5	74.5
29444	9039444	220	420	122	6	385	308	43	58	132	2350	8650	560	750	310	355	5	74
29248	9039248	240	340	60	2.1	325	283	19	30	130	800	3450		1100	285	305	2	16.5
	9069348	240	380	85	4	340	290	52	44	135	1320	4250		800				33.8
29348	9039348	240	380	85	4	360	298.5	29	41	135	1360	5400	670	900	300	330	3	35.5
	9069448	240	440	122	6	380	310	62	62	142	1920	7160	550	750				74.5
29448	9039448	240	440	122	6	400	316	43	60	142	2420	9100	560	750	330	375	5	96.1
	9069252	260	360	60	2.1	335	302	38	30	139	645	2880	530	750	310	326	2	15.7
29252	9039252	260	360	60	2.1	345	302	19	30	139	855	3850		1100	305	325	2	18
	9069352	260	420	95	5	370	315	60	46	148	1420	5850		710				45.6
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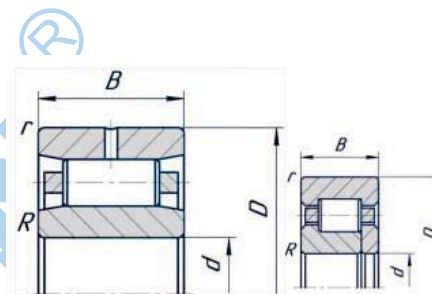
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29256	9039256	280	380	60	2.1	365	323	19	30	150	885	4100	700	1000	325	345	2	21.7
	9069356	280	440	95	5	413	348	64	46	158	1560	6120	530	750	355	390	4	49.1
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	9069456	280	520	145	6	450	365	75	72	166	2600	9860		630				115
29456	9039456	280	520	145	6	480	384	104	68	160	3400	13100	480	630	390	440	5	134
29260	9039260	300	420	73	3	400	353	21	38	162	1160	5150		900	355	380	2.5	30
	9069360	300	480	109	5	425	365	58	52	168	1870	7650		630				61.4
29360	9039360	300	480	109	5	450	379	37	50	168	2190	9100	530	700	380	420	4	74
29460	9039460	300	540	145	6	500	402	52	70	175	3500	13700	450	600	410	460	5	140
29264	9039264	320	440	73	3	420	372	21	38	172	1190	5450		850	375	400	2.5	32.5
	9069364	320	500	109	5	445	385	68	55	180	2030	7960		560				73.4
29364	9039364	320	500	109	5	463	394	83.4	52.3	180	2230	9400	500	670	400	440	4	75.7
	9069464	320	580	155	7.5	500	410	95	75	191	2930	11660						171
29464	9039464	320	580	155	7.5	555	436	108	75	191	3650	14600	430	560	435	495	6	178
	9069268	340	340	73	3	438	388	48	36	204	1150	2550	530	750	400	422	2.5	31.4
29268	9039268	340	460	73	3	440	395	21	37	183	1230	5750		850	395	420	2.5	33.5
	9069368	340	540	122	5	480	410	74	62	192	2710	11000						94.9
29368	9039368	340	540	122	5	510	428	41	59	192	2640	11200		600	430	470	4	103
29468	9039468	340	620	170	7.5	560	449.5	61	80	201	4400	17400	380	500	465	530	6	218
29272	9039272	360	500	85	4	480	423	25	44	194	1550	7300		750	420	455	3	51
29372	9039372	360	560	122	5	525	448	41	59	202	2670	11500		600	450	495	4	107
	9069472	360	640	170	7.5	555	460	87	85	210	3790	15440		450				199
29472	9039472	360	640	170	7.5	580	474	63	83.5	210	5200	21000		500	485	550	6	230
29276	9039276	380	520	85	4	496	441	27	42	202	1620	7800		700	440	475	3	52
29376	9039376	380	600	132	6	561	475	44	61.4	216	3300	14200		530	480	525	5	129
29476	9039476	380	670	175	7.5	610	494	120	87.5	222	5800	24000		480	510	575	6	260
	9069280	400	540	85	4	500	450	55	42	212	1260	7060						49
29280	9039280	400	540	85	4	510	460	27	42	212	1640	8000	500	700	460	490	3	65
	9069380	400	620	132	6	555	475	81	65	225	2860	12200						134
29380	9039380	400	620	132	6	582	489	44	64.7	225	3250	14500	440	620	500	550	5	153
	9069480	400	710	185	7.5	659	547	112	96	236	4450	19200						272
29480	9039480	400	710	185	7.5	645	525	67	89.5	234	6350	26100		450	540	610	6	310
	9069284	420	580	95	5	548	489	62	46	251	1880	5300		560	500	525	4	78.9
29284	9039284	420	580	95	5	553	489	30	46	225	2010	9800		630	490	525	4	72
29384	9039384	420	650	140	6	610	514.5	48	68	235	3600	16000	420	600	525	575	5	175
29484	9039484	420	730	185	7.5	665	545	67	90.5	244	6650	27500		430	560	630	6	323
29288	9039288	440	600	95	5	575	508	30	49	235	2030	10100		630	510	545	4	77
29388	9039388	440	680	145	6	626	540	49	70.5	245	4250	16700		480	550	600	5	180
29488	9039488	440	780	206	9.5	710	577	74	101	260	7550	32000		380	595	670	8	410
29488/HV		440	780	206	9.5	660	588	110	100	260	7880	34000			595	670	8	346.6
29292	9039292	460	620	95	5	590	525.5	30	49.4	245	2060	10300	400	600	530	570	4	75
29392	9039392	460	710	150	6	666	567	51	72	257	4100	18400		450	575	630	5	210
29492	9039492	460	800	206	9.5	765	608	74	100	272	6900	28300		380	615	690	8	420
	9069296	480	650	103	5	600	540	65	50	259	1950	10500						89.4
29296	9039296	480	650	103	5	624	556	33	55	259	2370	12100		560	555	595	4	97

29396	9039396	480	730	150	6	690	590	51	72	270	4150	19000		450	595	650	5	215
29496	9039496	480	850	224	9.5	810	638	81	108	280	7200	31000		340	645	730	8	545
	90692/500	500	670	103	5	620	560	60	50	268	2050	1080						92
292/500	90392/500	500	670	103	5	645	574	33	55	268	2390	12400	380	560	575	615	4	100
	90693/500	500	750	150	6	705	611	98	71	280	3550	1720						211
293/500	90393/500	500	750	150	6	715	611	51	74	280	4350	20400	340	520	615	670	5	220
	90694/500	500	870	224	9.5	760	630	140	110	290	6290	27340						520
294/500	90394/500	500	870	224	9.5	790	648	81	107	290	7850	33000	320	460	670	750	8	589
	90692/530	530	710	109	5													117
292/530	90392/530	530	710	109	5	680	604	69.5	54	288	2620	15300	350	530	620	655	4	118
293/530	90393/530	530	800	160	7.5	760	648	54	76	295	5050	23300		400	655	710	6	284
	90694/530	530	920	236	9.5	840	700	145	116	309	8386	32600						573
294/530	90394/530	530	920	236	9.5	880	696	85	114	310	8550	37000		320	715	790	8	660
	90692/560	560	750	115	5	695	625	72	58	300	2430	13300						127
292/560	90392/560	560	750	115	5	732	644	37	61	302	2990	17900	360	480	655	685	4	140
293/560	90393/560	560	850	175	7.5	810	687	59	85	310	5700	26700		360	695	750	6	354
294/560	90394/560	560	980	250	12	935	744	91	124	325	9600	42000		300	755	835	10	800
294/560/HV		560	980	250	12	830	727	142	122	328	12000	51000						674
292/600	90392/600	600	800	122	5	772	688	39	58	321	3300	17800		450	690	735	4	169
293/600	90393/600	600	900	180	7.5	840	720	65	89	340	6330	33700		340	755	810	6	400
	90694/600	600	1030	258	12	900	750	156	130	360	9860	38500						700
294/600	90394/600	600	1030	258	12	985	780	93	127	345	10100	43000		280	800	885	10	895
	90692/630	630	850	132	6	800	728	86	65	338	3450	19800		300	740	780	5	188
292/630	90392/630	630	850	132	6	810	723	50	62	338	4770	24200		400	740	780	5	210
293/630	90393/630	630	950	190	9.5	880	761	68	92	359	8450	40300		320	795	860	8	485
294/630	90394/630	630	1090	280	12	1040	830	100	136	365	11600	51500		260	845	935	10	1100
294/630EM		630	1090	280	12	995	815	179	137	365								989
	90692/670	670	900	140	6	830	750	86	70	365	3670	20280						218
292/670	90392/670	670	900	140	6	880	773	45	73	361	4200	25500		380	790	825	5	255
293/670	90393/670	670	1000	200	9.5	935	804	73	98	379	7360	39600		300	840	900	8	545
294/670	90394/670	670	1150	290	15	1090	870	105	140	385	12500	56000		240	895	990	12	1250
	90692/710	710	950	145	6	895	805	92	75	380	3600	12000		240	820	880	5	279
292/710	90392/710	710	950	145	6	900	815	46	71	380	5230	27500		360	830	875	5	290
293/710	90393/710	710	1060	212	9.5	985	855	74	103	404	9950	45500		280	890	960	8	660
294/710	90394/710	710	1220	308	15	1160	920	132	148	407	14300	65500		220	950	1050	12	1500
292/750	90392/750	750	1000	150	6	950	858	52	74	409	5870	33700			880	925	5	325
293/750	90393/750	750	1120	224	9.5	1086	910	76	109	415	9370	51000			935	1000	8	770
	90694/750	750	1280	315	15	1152	972	160	158	448	14340	58600			1015	1120	12	1340
294/750	90394/750	750	1280	315	15	1220	970	128	152	429	15100	69000			995	1105	12	1680
	90692/800	800	1060	155	7.5	985	890	80	80	475	5635	28870						323
292/800	90392/800	800	1060	155	7.5	1010	907.5	50	80	426	6350	33700			935	980	6	343
293/800	90393/800	800	1180	230	9.5	1146	965	78	111	440	9950	56100			995	1060	8	865
294/800	90394/800	800	1360	335	15	1300	1030	121	162	445	16600	77500			1060	1175	12	2010
294/800A		800	1360	335	15	1160	1034	185	165	462	20200	93000						1658
292/850	90392/850	850	1120	160	7.5	1060	967	47	82	455	6730	37400			980	1030	6	425
293/850	90393/850	850	1250	243	12		1024				11100	61600						1000
294/850	90394/850	850	1440	354	15	1250	1034	142	172	507	18700	99000			1160	1270	12	2350

292/900	90392/900	900	1180	170	7.5		1023				6330	40900						
294/900	90394/900	900	1520	372	15	1450	1164	135	185	520	22200	121000			1190	1315	12	2760
292/950	90392/950	950	1250	180	7.5	1185	1081	58	88	507	8280	46600			1095	1155	6	600
294/950	90394/950	950	1600	390	15	1470	1209	153	191	546	28200	13200			1275	1400	12	3065
292/1000	90392/1000	1000	1320	190	9.5		1139				7990	52800						710
293/1000	90393/1000	1000	1460	276	12	1365	1192	100	137	561	14400	82500			1245	1330	10	1550
	90692/1060	1060	1400	206	9.5	1300	1180	128	103	566	7800	48000						824
292/1060	90392/1060	1060	1400	206	9.5	1335	1208	66	100	566	10500	59400			1225	1290	8	767
292/1180	90392/1180	1180	1520	206	9.5	1450	1331	83	101	625	10900	64000			1345	1410	8	950
293/1250	9039/1250	1250	1800	330	12	1685	1474	147	161	698	24800	129000			1540	1640	10	2770
293/1600	9039/1600	1600	2280	408	19	2130	1885	166	195	894	36800	200000			1955	2090	15	5375



Single Row Cylindrical Roller Bearings



Bearing NO.		Boundary dimensions(mm)							Basic load ratings(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)						Weight(kg)
New	Old	d	D	B	r ₁ , 2min	r ₃ , 4min	Fw	Ew	Cr	Cor	Grease	Oil	d _a min	d _b min	D _a max	D _b max	r _a max	r _b max	Refer
N220M	2220	100	180	34	2.1	2.1		160	190	260	3200	3800	114			166	2	2	3.45
NJ220EM		100	180	34	2.1	2.1	119		190	260	3200	3800		114	169		2	2	3.9
NF220M	12220	100	180	34	2.1	2.1		160	190	260	3200	3800	114			166	2	2	3.55
NU220M	32220	100	180	34	2.1	2.1	120		190	260	3200	3800		114	169		2	2	5.2
NJ220EM	42220	100	180	34	2.1	2.1	119		190	260	3200	3800		114	169		2	2	3.9
NU2220M	32520	100	180	46	2.1	2.1	120		260	390	3200	3800		114	169		2	2	5.2
NU320EM	32320EH	100	215	47	3	3	127.5		380	470	2400	3000		116	202		2.5	2.5	8.35
N320EM	2320EH	100	215	47	3	3		191.5	380	470	2400	3000	116			197	2.5	2.5	9.67
N2320M	2620	100	215	73	3	3		185.5	440	630	2400	3000	116			197	2.5	2.5	13.1
NU2320M	32620	100	215	73	3	3	129.5		440	630	2400	3000		116	197		2.5	2.5	13.2
NJ2320M	42620	100	215	73	3	3	129.5		440	630	2400	3000		116	197		2.5	2.5	13.5
NF1021M	12121	105	160	26	2	1.1	119.5	145.5	120	176	4000	4800		114	150		2	1	1.93
N1021M	2121	105	160	26	2	1.1		145.5	120	176	4000	4800	117			150	2	1	1.82
N221M	2221	105	190	36	2.1	2.1		168.8	210	290	3000	3600	119			175	2	2	4.33
NJ221M	42221	105	190	36	2.1	2.1	126.8		210	290	3000	3600		121	179		2	2	4.34
N321EM	2321EH	105	225	49	3	3		201	420	550	2200	2800	121			203	2.5	2.5	10.5
NU321EM	32321EH	105	225	49	3	3	133		420	550	2200	2800		121	212		2.5	2.5	10.6
N421M	2421	105	260	60	4	4		220.5	550	700	2200	2800	121			224	3	3	17.2

N1022M	2122	110	170	28	2	1.1		155	148	203	3800	4500	122			160			2.31
NU1022M	32122	110	170	28	2	1.1	125		148	203	3800	4500		119	157		2	1	2.32
NJ1022M	42122	110	170	28	2	1.1	125		148	203	3800	4500		119	157		2	1	2.39
N222M	2222	110	200	38	2.1	2.1		178.5	255	340	2800	3400	124			185	2	2	5.02
NU222M	32222	110	200	38	2.1	2.1	132.5		255	340	2800	3400		124	185		2	2	5.05
NJ222M	42222	110	200	38	2.1	2.1	132.5		255	340	2800	3400		124	185		2	2	5.1
NU2222EC	32522	110	200	53			132		380	520	2800	3400		124	185		2	2	7.73
N322EM	2322EH	110	240	50	3	3		211	430	540	2000	2600	126			227	2.5	2.5	11.4
NU322M	32322	110	240	50	3	3	143	207	400	525	2000	2600		126	222		2.5	2.5	11.6
NJ322M	42322	110	240	50	3	3	143	207	400	525	2000	2600		126	222		2.5	2.5	11.8
NU2322EM	32622EH	110	240	80	3	3	143		620	800	2000	2600		126	222		2.5	2.5	18.3
N422M	2422	110	280	65	4	4		235	580	735	2000	2600	130			252	3	3	21.8
NU422M	32422	110	280	65	4	4	155		580	735	2000	2600		135	252		3	3	22
NJ422M	42422	110	280	65	4	4	155		580	735	2000	2600		135	252		3	3	22.3
NU1024M	32124	120	180	28	2	1.1	135		139	210	3400	4000		130	167		2	1	2.96
NJ1024M	42124	120	180	28	2	1.1	135		139	210	3400	4000		130	167		2	1	3.09
N224M	2224	120	215	40	2.1	2.1		191.5	286	400	2400	3000	134			199	2	2	6.11
NU224EM	32224EH	120	215	40	2.1	2.1	143.5		335	420	2400	3000		134	199		2	2	6.27
NJ224EM	42224EH	120	215	40	2.1	2.1	143.5		335	420	2400	3000		134	199		2	2	6.72
N2224M	2524	120	215	58	2.1	2.1		191.5	360	550	2400	3000	134			199	2	2	8.92
NU2224M	32524	120	215	58	2.1	2.1	143.5		430	585	2400	3000		134	199		2	2	9.31
NJ2224M	42524	120	215	58	2.1	2.1	143.5		430	585	2400	3000		134	199		2	2	9.46
NF2224EM	12524EH	120	215	58	2.1	2.1		195.5	410	620	2400	3000	130			199	2	2	9.72
N324M	2324	120	260	55	3	3		226	500	650	1900	2400	136			242	2.5	2.5	15.1
NF324M	12324	120	260	55	3	3		226	476	605	1900	2400	136			242	2.5	2.5	14.3
NU324EM	32324EH	120	260	55	3	3	154		530	610	1900	2400		136	242		2.5	2.5	15.4
N2324M	2624	120	260	86	3	3		226	680	980	1900	2400	136			242	2.5	2.5	23.9
NU2324EM	32624EH	120	260	86	3	3	154		795	1030	1900	2400		136	242		2.5	2.5	23.1
NJ2324EM	42624EH	120	260	86	3	3	154		795	1030	1900	2400		136	242		2.5	2.5	23.4
N424M	2424	120	310	72	5	5		260	710	920	1900	2400	146			290	4	4	29
NU424M	32424	120	310	72	5	5	170		710	920	1900	2400		146	290		4	4	29.1
NJ424M	42424	120	310	72	5	5	170		710	920	1900	2400		146	290		4	4	29.7
N1026M	2126	130	200	33	2	1.1		182	180	280	3200	3800	142			189	2	1	4.52
NU1026M	32126	130	200	33	2	1.1	148		180	280	3200	3800		140	187		2	1	4.66
NU226EM	32226EH	130	230	40	3	3	153.5		345	425	2200	2800		146	212		2.5	2.5	7.9
NJ226EM	42226	130	230	40	3	3	153.5		290	410	2200	2800		146	212		2.5	2.5	7.38
N2226M	2526	130	230	64	3	3		204	400	630	2200	2800	146			212	2.5	2.5	11.6
NU2226EM	32526	130	230	64	3	3	153.5		530	735	2200	2800		146	212		2.5	2.5	12.5
NJ2226EM	42526	130	230	64	3	3	153.5		530	735	2200	2800		146	212		2.5	2.5	12.9
NJ2226X3		130	240	72			158		630	850	2200	2800		146	212				14.8
N326M	2326	130	280	58	4	4		243	550	720	1800	2200	149			258	3	3	17.8
NU326EM	32326EH	130	280	58	4	4	167		615	735	1800	2200		149	258		3	3	19.3
NJ326EM	42326EH	130	280	58	4	4	167		615	735	1800	2200		149	258		3	3	19.5
N2326EM	2626EH	130	280	93				243	920	1230	1800	2200	149			258	3	3	29
NU2326EM	32626EH	130	280	93	4	4	167		920	1230	1800	2200		149	258		3	3	28.7
NJ2326EM	42626EH	130	280	93	4	4	167		920	1230	1800	2200		149	258		3	3	28.9
NUP2326M	92626	130	280	93	4	4	167		920	1230	1800	2200		149	258		3	3	30.5
NU3028M	3032128	140	210	53	2	2	158		330	630	2600	3400		152	196		2	2	7.64
NU3128M	3032728	140	225	68	2.1	2.1	162.5		390	625	2600	3400		155	209		2	2	10.6
N228M	2228	140	250	42	3	3		221	345	490	2400	3000	157			232	2.5	2.5	9.14

NU228EM	32228EH	140	250	42	3	3	169		395	515	2400	3000		157	232		2.5	2.5	9.36
NJ228EM	42228EH	140	250	42	3	3	169		395	515	2400	3000		157	232		2.5	2.5	9.43
NUP228M	92228	140	250	42	3	3	169		345	490	2400	3000		157	232		2.5	2.5	9.51
NU2228EM	32528EH	140	250	68	3	3	169		550	790	2000	2600		157	232		2.5	2.5	15.9
NJ2228M	42528	140	250	68	3	3	169		475	760	2000	2600		157	232		2.5	2.5	14.8
N328M	2328	140	300	62	4	4		263.6	610	805	1900	2400	160			278	3	3	21.9
NF328M	12328	140	300	62	4	4		260	610	805	1900	2400	160			278	3	3	22.8
NU328EM	32328EH	140	300	62	4	4	180		665	880	1800	2200		160	278		3	3	23.7
NUP328M	92328	140	300	62	4	4	180		610	805	1800	2200		160	278		3	3	24.5
N2328M	2628	140	300	102	4	4		260	880	1300	1800	2200	160			278	3	3	34.6
NU2328EM	32628	140	300	102	4	4	180		1020	1380	1800	2200		160	278		3	3	35.8
NJ2328EM	42628	140	300	102	4	4	180		1020	1380	1800	2200		160	278		3	3	41
NJ428M	42428	140	360	82	5	5	196		896	998	1700	2000		160	278		4	4	46.3
NU1930M	1032930	150	210	28	2	1.1	165		164	252	2600	3200		160	196		2	1	2.98
NU2930M	2032930	150	210	36	2	1.1	165		204	335	2600	3200		160	196		2	1	3.83
NU1030M	32130	150	225	35	2.1	1.5	169.5		202	294	2600	3200		162	209		2	1.5	4.94
NJ1030M	42130	150	225	35	2.1	1.5	169.5		202	294	2600	3200		162	209		2	1.5	5.05
N230M	2230	150	270	45	3	3		238	395	580	2000	2600	167			251	2.5	2.5	11.6
NU230EM	32230EH	150	270	45	3	3	182		450	595	1900	2400		167	251		2.5	2.5	12.5
NJ230EM	42230EH	150	270	45	3	3	182		450	595	1900	2400		167	251		2.5	2.5	12.7
NUP230EM	92230EH	150	270	45	3	3	182		450	595	1900	2400		167	251		2.5	2.5	13
NU2230EM	32530EH	150	270	73	3	3	182		635	930	1900	2400		167	251		2.5	2.5	19.9
NU2230EWB	32530K	150	270	73/143	3	3	182		635	930	1900	2400		167	251		2.5	2.5	23.3
NJ2230EM	42530EH	150	270	73	3	3	182		635	930	1900	2400		167	251		2.5	2.5	21.4
RN330		150		65	4	4		277	715	890	1700	2000	170				3	3	16.1
N330M	2330	150	320	65	4	4		280.8	715	890	1700	2000	170			297	3	3	26.5
NU330EM	32330EH	150	320	65	4	4	193		750	1020	1700	2000		170	297		3	3	26.8
NJ330EM	42330EH	150	320	65	4	4	193		750	1020	1700	2000		170	297		3	3	27.2
NUP330M	92330	150	320	65	4	4	193		680	920	1700	2000		170	297		3	3	27.4
NU330-113		150	320	65/108	4	4	193		715	890	1700	2000		170	297		3	3	29.6
NU2330EM	32630EH	150	320	108	4	4	193		1160	1600	1700	2000		170	297		3	3	41.5
NJ2330EM	42630EH	150	320	108	4	4	193		1160	1600	1700	2000		170	297		3	3	42.4
NF2330EM	12630EH	150	320	108	4	4	193		1160	1600	1700	2000		170	297		3	3	43.6
NU3330M	3032330	150	320	128	4	4	193		1250	1900	1400	1800		170	297		3	3	49.9
NJ3330M	3042330	150	320	128	4	4	193		1250	1900	1400	1800		170	297		3	3	51
NU2932M	2032932	160	220	36	2	2	173		240	450	2500	3200		170	206		1.5	1.5	4.08
NJ2932M	2042932	160	220	36	2	2	173		240	450	2500	3200		170	206		1.5	1.5	4.17
NU1032M	32132	160	240	38	2.1	2.1	180		238	340	2400	3000		172	224		2	2	5.96
NJ1032M	42132	160	240	38	2.1	2.1	180		238	340	2400	3000		172	224		2	2	6.13
N232M	2232	160	290	48	3	3		257	460	650	1800	2200	177			271	2.5	2.5	14.3
NU232EM	32232EH	160	290	48	3	3	193		500	665	1800	2200		177	271		2.5	2.5	14.8
NJ232EM	42232EH	160	290	48	3	3	195		500	665	1800	2200		177	271		2.5	2.5	14.6
NUP232EM	92232	160	290	48	3	3	193		500	665	1800	2200		177	271		2.5	2.5	15.5
NU2232EM	32532EH	160	290	80	3	3	193		810	1190	1800	2200		177	271		2.5	2.5	24.2
N332M	2332	160	340	68	4	4		292	705	995	1500	1800	180			317	3	3	30.63
NU332EM	32332EH	160	340	68	4	4	204		860	1050	1500	1800		180	317		3	3	33
NJ332EM	42332EH	160	340	68	4	4	204		860	1050	1500	1800		180	317		3	3	33.6
N2332M	2632	160	340	114	4	4		292	1080	1650	1500	1800	180			317			51.6
NU2332EM	32632EH	160	340	114	4	4	204		1310	1820	1500	1800		180	317		3	3	56.5
NU3332M		160	340	136	4	4	208		1240	1850	1500	1800		180	317		3	3	63

NU3834M		170	215	34	1.1	1	181.5		187	385	2500	3200		179	204		1	1	2.99
NU2934M	2032934	170	230	36	2	1.1	185		211	360	2500	3200		181	216		2	1	4.24
NU1034M	32134	170	260	42	2.1	2.1	193		287	415	2200	2800		185	244		2	2	8.23
NJ1034M	42134	170	260	42	2.1	2.1	193		287	415	2200	2800		185	244		2	2	8.46
NU3034M	3032134	170	260	67	2.1	2.1	193		510	875	2200	2800		185	244		2	2	13.4
NU3134M	3032734	170	280	88	2.1	2.1	200		665	1080	2000	2400		185	263		2	2	22
N234M	2234	170	310	52	4	4		272	520	780	1800	2200	190		288		3	3	18.2
NU234EM	32234EH	170	310	52	4	4	208		475	635	1800	2200		190	288		3	3	17.7
NJ234EM	42234EH	170	310	52	4	4	208		475	635	1800	2200		190	288		3	3	18.1
NU2234EM	32534EH	170	310	86	4	4	205		925	1330	1800	2200		190	288		3	3	31.5
NU3234M		170	310	110	4	4	208		915	1470	1800	2200		190	288		3	3	37.9
N334M	2334	170	360	72	4	4		310	795	1010	1400	1700	190		337		3	3	37.3
NU334M	32334	170	360	72	4	4	220		795	1010	1400	1700		190	337		3	3	37.7
NJ334M	42334	170	360	72	4	4	220		795	1010	1400	1700		190	337		3	3	38.4
NU2234EM	32534EH	170	360	86	4	4	205		960	1500	1800	2200		190	337		3	3	29
NU2334M	32634	170	360	120	4	4	220		1220	1750	1400	1700		190	337		3	3	63.7
NJ2334M	42634	170	360	120	4	4	220		1220	1750	1400	1700		190	337		3	3	64.7
NU3334M		170	360	140	4	4	220		1350	1980	1400	1700		190	337		3	3	72.1
NU3836M		180	225	34	2.1	2.1	191.5		192	405	2200	2800		189	214		2	2	3.15
NU1936M	1032936	180	250	33	2.1	2.1	198		219	355	2200	2800		191	236		2	2	4.92
NU2936M	2032936	180	250	42	2.1	2.1	198		255	430	2200	2800		191	236		2	2	6.18
NU1036EM	32136EH	180	280	46	2.1	2.1	205		380	565	1800	2400		195	263		2	2	10.2
NJ1036EM	42136EH	180	280	46	2.1	2.1	205		380	565	1800	2400		195	263		2	2	10.8
NU3036M	3032136	180	280	74	2.1	2.1	206		365	955	1800	2400		195	263		2	2	17.4
NU236EM	32236EH	180	320	52	4	4	217		625	850	1700	2000		200	297		3	3	18
NJ236EM	42236EH	180	320	52	4	4	217		625	850	1700	2000		200	297		3	3	18.6
NUP236EM	92236EH	180	320	52	4	4	217		625	850	1700	2000		200	297		3	3	21.4
NU2236EM	32536EH	180	320	86	4	4	215		1010	1510	1700	2000		200	297		3	3	30.3
NJ2236EM	42536EH	180	320	86	4	4	215		1010	1510	1700	2000		200	297		3	3	31
NUP2236M	92536	180	320	86	4	4	215		960	1580	1700	2000		200	297		3	3	32.1
NU3236M	3032236	180	320	112	4	4	218		950	1560	1700	2000		200	297		3	3	39.6
N336M	2336	180	380	75	4	4		330	910	1150	1500	1800	200		356		3	3	39.6
NU336M	32336	180	380	75	4	4	230		910	1150	1500	1800		200	356		3	3	43.5
NU2336M	32636	180	380	126	4	4	232		1380	1990	1300	1600		200	356		3	3	68.9
NJ2336M	42636	180	380	126	4	4	232		1380	1990	1300	1600		200	356		3	3	69.5
NU3336M		180	380	150	4	4	232		1600	2410	1300	1600		200	356		3	3	86.4
NU2838M	2032838	190	240	30	2.1	2.1	203		180	355	2200	2800		202	227		2	2	3.22
NU2938M	2032938	190	260	42	2.1	2.1	208		260	450	2200	2800		201	245		2	2	6.42
NU1038M	32138	190	290	46	2.1	2.1	215		365	535	2000	2600		206	273		2	2	10.7
NU3038M	3032138	190	290	75	2.1	2.1	219		565	1010	1800	2200		206	273		2	2	18.3
NU238EM	32238EH	190	340	55	4	4	230		695	955	1600	1900		211	317		3	3	21.6
NJ238EM	42238EH	190	340	55	4	4	230		695	955	1600	1900		211	317		3	3	22
NUP238EM	92238EH	190	340	55	4	4	230		695	955	1600	1900		211	317		3	3	22.3
NU2238EM	32538EH	190	340	92	4	4	228		1100	1670	1600	1900		211	317		3	3	39.5
NU3238M	3032238	190	340	120	4	4	231		1070	1780	1400	1600		211	317		3	3	49.3
N338M	2338	190	400	78	5	5		345	975	1260	1200	1500	215		372		4	4	48.5
NU338M	32338	190	400	78	5	5	245		975	1260	1200	1500		215	372		4	4	50.2
NJ338M	42338	190	400	78	5	5	245		975	1260	1200	1500		215	372		4	4	49.4
NU2338M	32638	190	400	132	5	5	245		1520	2220	1200	1500		215	372		4	4	84.9
NU3338M		190	400	155	5	5	245		1730	2630	1200	1500		215	372		4	4	99.2

NU1940M	1032940	200	280	38	2.1	2.1	220		268	425	2200	2800		216	263		2	2	7.22
NU2940M	2032940	200	280	48	2.1	2.1	220		365	630	2200	2800		213	263		2	2	9.24
NJ2940M	2042940	200	280	48	2.1	2.1	222		365	630	2200	2800		213	263		2	2	9.7
NU1040M	32140	200	310	51	2.1	2.1	227		450	720	1900	2400		216	293		2	2	14.3
NJ1040EM	42140EH	200	310	51	2.1	2.1	227		450	720	1900	2400		216	293		2	2	14.7
NU3140M	3032140	200	340	112	3	3	233		1190	1850	1900	2400		218	320		2.5	2.5	41.4
N240M	2240	200	360	58	4	4		316	675	995	1500	1800	221			337	3	3	26.7
NU240EM	32240EH	200	360	58	4	4	243		765	1060	1500	1800		221	337		3	3	26.8
NJ240EM	42240EH	200	360	58	4	4	244		765	1060	1500	1800		221	337		3	3	27.1
NUP240EM	92240EH	200	360	58	4	4	244		765	1060	1500	1800		221	337		3	3	28.2
N2240EM	2540EH	200	360	98	4	4		325	1220	1870	1500	1800	221			337	3	3	44.9
NU2240EM	32540EH	200	360	98	4	4	241		1220	1870	1500	1800		221	337		3	3	45.1
NJ2240M	42540	200	360	98	4	4	244		960	1600	1500	1800		221	337		3	3	45.5
NU3240M	3032240	200	360	128	4	4	244		1100	1810	1500	1800		221	337		3	3	58
NU340M	32340	200	420	80	5	5	260		975	1270	1500	1800		225	392		4	4	56.8
N2340M	2640	200	420	138	5	5		364	1620	2640	1200	1500	225			392	4	4	94.5
NU2340M	32640	200	420	138	5	5	260		1510	2240	1200	1500		225	392		4	4	96.8
NU3340M	3032340	200	420	165	5	5	260		1730	2660	1200	1500		225	392		4	4	115
NU1944M	1032944	220	300	38	2.1	1.5	240	280	295	495	1900	2400	236	233	283	286	2	1.5	7.88
NU2944M	2032944	220	300	48	2.1	1.5	240	280	370	660	1900	2400	236	233	283	286	2	1.5	9.93
NU1044M	32144	220	340	56	3	3	250		500	750	1800	2200		238	320		2.5	2.5	18.2
NJ1044M	42144	220	340	56	3	3	250		500	750	1800	2200		238	320		2.5	2.5	19.6
N244M	2244	220	400	65	4	4		350	760	1200	1500	1800	241			376	3	3	36.7
NU244M	32244	220	400	65	4	4	270		760	1200	1500	1800		241	376		3	3	34.7
NJ244M	42244	220	400	65	4	4	270		760	1200	1500	1800		241	376		3	3	35.4
NU2244M	32544	220	400	108	4	4	270		1140	1810	1300	1600		241	376		3	3	61.8
NJ2244M	42544	220	400	108	4	4	270		1140	1810	1300	1600		241	376		3	3	63
N2344EM	2644EH	220	460	145	5	5		407	1780	2620	1000	1300	245			431	4	4	114
NU2344EM	32644EH	220	460	145	5	5	284		1780	2620	1000	1300		245	431		4	4	120
NU3344M/HC		220	460	180			284		2130	3300	800	1100		245	431		4	4	140.6
NU1948M	1032948	240	320	38	2.1	2.1	260		315	550	2000	2400		253	302		2	2	8.68
NU2948M	2032948	240	320	48	2.1	2.1	260		385	710	2000	2400		253	302		2	2	10.7
NU1048M	32148	240	360	56	3	3	270		530	820	1700	2000		259	340		2.5	2.5	21.2
NU248M	32248	240	440	72	4	4	295		985	1540	1300	1600		262	415		3	3	46.9
NJ248M	42248	240	440	72	4	4	295		935	1340	1300	1600		262	415		3	3	51
NUP248M	92248	240	440	72	4	4	295		935	1340	1300	1600		262	415		3	3	51.4
NU2248M	32548	240	440	120	4	4	295		1440	2320	1000	1300		262	415		3	3	84.9
NJ2248M	42548	240	440	120	4	4	295		1440	2320	1000	1300		262	415		3	3	86.7
N348M	2348	240	500	95	5	5		430	1400	2200	1000	1300	266			470	4	4	94.6
NU348M	32348	240	500	95	5	5	310		1400	2200	1000	1300		266	470		4	4	96.3
NU2348M	32648	240	500	155	5	5	310		2000	2990	1000	1300		266	470		4	4	152
NU1952M	1032952	260	360	46	2.1	2.1	286		435	760	1900	2200		277	342		2	2	14.4
NU2952M	2032952	260	360	60	2.1	2.1	286		535	995	1900	2200		277	342		2	2	18.6
NU1052M	32152	260	400	65	4	4	296		645	1000	1500	1800		282	376		3	3	29.1
NUP1052M	92152	260	400	65	4	4	296		645	1000	1500	1800		282	376		3	3	37.2
NU252M	32252	260	480	80	5	5	320		985	1800	1100	1400		286	450		4	4	67.2
NU2052EM	2032152EH	260	480	82	5	5	294		1100	1800	1100	1400		283	450		4	4	40.5
NU2252M	32552	260	480	130	5	5	320		1710	2770	900	1200		286	450		4	4	111
NU352M	32352	260	540	102	6	6	336		1540	2090	900	1200		292	503		5	5	118
NU2352M	32652	260	540	165	6	6	336		2230	3350	900	1200		292	503		5	5	190

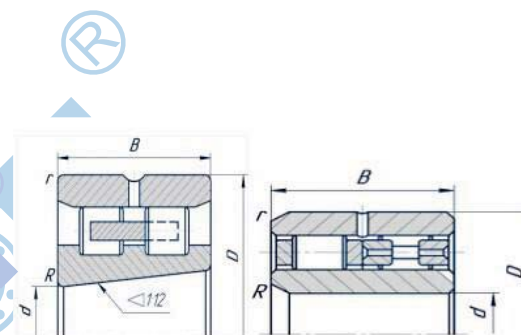
NU2856M		280	350	42	2	2	299		325	705	1800	2200		295	334		2	2	9.16
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NU1956M	1032956	280	380	46	2.1	2.1	306		450	815	1800	2200		297	361		2	2	15.2
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NU1056M	32156	280	420	65	4	4	316		660	1050	1400	1700		302	395		3	3	30.8
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NU256M	32256	280	500	80	5	5	340		1140	1680	1000	1300		306	470		4	4	70.7
NU2256M	32556	280	500	130	5	5	340		1770	2950	900	1200		306	470		4	4	117
NU2356M	32656	280	580	175	6	6	362		2570	3950	900	1200		313	542		5	5	236
NU1960M	1032960	300	420	56	3	3	332		555	975	1600	2000		320	398		2.5	2.5	24.4
NU2960M	2032960	300	420	72	3	3	332		725	1370	1400	1700		320	398		2.5	2.5	30.3
NU1060M	32160	300	460	74	4	4	340		885	1400	1200	1500		323	435		3	3	44.9
NJ1060M	42160	300	460	74	4	4	340		885	1400	1200	1500		323	435		3	3	46.3
NU260M	32260	300	540	85	5	5	364		1400	2070	1000	1300		327	509		4	4	86.9
NUP260M	92260	300	540	85	5	5	364		1400	2070	1000	1300		327	509		4	4	90
NU2260M	32560	300	540	140	5	5	365		1960	3200	900	1100		327	509		4	4	145
NU360M	32360	300	620	109	7.5	7.5	385		2200	3350	900	1100		357	590		7	7	166
NU1964M	1032964	320	440	56	3	3	352		580	1050	1100	1400		340	418		2.5	2.5	25.7
NU2964M	2032964	320	440	72	3	3	352		755	1470	1100	1400		340	418		2.5	2.5	33.5
NU1064M	32164	320	480	74	4	4	360		905	1470	1100	1400		343	454		3	3	47.8
NJ1064M	42164	320	480	74	4	4	360		905	1470	1100	1400		343	454		3	3	47.8
NUP1064M	92164	320	480	74	4	4	360		905	1470	1100	1400		343	454		3	3	49.1
NU3164M	3032764	320	540	176	5	5	374		2740	4700	800	1200		347	509		4	4	170
NU264M	32264	320	580	92	5	5	390		1540	2270	900	1200		347	548		4	4	112
NU2264M	32564	320	580	150	5	5	390		2260	3700	900	1200		347	548		4	4	181
NU2868M		340	420	48	2.1	1.5	362		435	1010	1200	1500		355	400		2	1.5	14.9
NU3868M		340	420	60	2.1	2.1	362		515	1250	1200	1500		359	400		2	2	18.6
NU1968M	1032968	340	460	56	3	3	372		600	1120	1100	1400		361	438		2.5	2.5	27.1
NU2968M	2032968	340	460	72	3	3	370		780	1570	1100	1400		361	438		2.5	2.5	33.7
NU1068M	32168	340	520	82	5	5	385		1080	1740	1000	1300		368	490		4	4	61.8
NU3168M	3032768	340	580	190	5	5	399		3500	6250	700	1000		368	548		4	4	214
NU268M	32268	340	620	92	6	6	420		1590	2410	900	1200		374	582		5	5	128
NU1972M	1032972	360	480	56	3	3	392		605	1160	1200	1500		381	457		2.5	2.5	28.8
NU2972M	2032972	360	480	72	3	3	392		790	1630	1000	1300		381	457		2.5	2.5	36.7
NU1072M	32172	360	540	82	5	5	405		1110	1830	900	1100		388	509		4	4	64.1
NU272M	32272	360	650	95	6	6	445		1650	2560	900	1100		394	611		5	5	144
NU2272M	32572	360	650	170	6	6	435		3500	6050	800	100		394	611		5	5	258
NU2372M	32672	360	750	224	7.5	7.5	455		4950	8700	700	850		420	690		7	7	480
NUP2876Q1	2092876Q	380	480	60	2.1	2.1	406		550	680	950	1200		396	460		2	2	27
NU1976M	1032976	380	520	65	4	4	418		775	1470	950	1200		404	493		3	3	41.2
NU1076M	32176	380	560	82	5	5	425		1140	1910	950	1200		408	529		4	4	67.5
NU3076M	3032176	380	560	135	5	5	433		1740	3600	850	1000		408	529		4	4	117
NU3176M	3032776	380	620	194	5	5	440		3350	6400	850	1000		408	588		4	4	238
NU276M	32276	380	680	95	6	6	470		1700	2700	850	1000		415	640		5	5	158
NU2276M	32576	380	680	175	6	6	460		3100	5250	750	900		415	640		5	5	290
NU3880M		400	500	75	2.1	2.1	427		785	1900	1000	1200		420	479		2	2	34.2
NU1980M	1032980	400	540	65	4	4	438	502	785	1520	1000	1200		425	513		3	3	43
NU2980M	2032980	400	540	82	4	4	438	502	1060	2250	900	1100		425	513		3	3	54.9
NU1080M	32180	400	600	90	5	5	450	550	1360	2280	900	1100		429	568		4	4	88.2
NJ1080M	42180	400	600	90	5	5	450	550	1360	2280	900	1100		429	568		4	4	90.6

NU3080M	3032180	400	600	148	5	5	458	548	2150	4450	800	950		429	568		4	4	150
NU2280	32580	400	720	185	6	6	485		4300	7800	800	950		435	680		5	5	344
NU3884M		420	520	75	2.1	2.1	447		800	1990	900	1100		440	498		2	2	35.4
NU1984M	1032984	420	560	65	4	4	458		830	1660	900	1100		445	533		3	3	45
NJ1984M	1042984	420	560	65	4	4	458		830	1660	900	1100		445	533		3	3	47.4
NU2984M	2032984	420	560	82	4	4	458	522	1080	2320	900	1100		445	533		3	3	58.2
NU1084	32184	420	620	90	5	5	470	570	1390	2380	900	1100		449	588		4	4	91.7
NU3084	3032184	420	620	150	5	5	478	568	2190	4600	750	900		449	588		4	4	158
NU2284	32584	420	760	195	7.5	7.5	515		4400	8200	750	900		462	713		6	6	406
NU2988	2032988	440	600	95	4	4	484		1300	2760	900	1100		466	572		3	3	79.9
NU1088	32188	440	650	94	6	6	493		1470	2530	850	1000		476	611		5	5	105
NU3188	3032788	440	720	226	6	6	508		4750	9800	700	850		480	700		5	5	374
NU2288	32588	440	790	200	7.5	7.5	530		4850	8650	700	850		482	742		6	6	446
NU1992	1032992	460	620	74	4	4	500		1170	2260	800	950		486	591		3	3	63.2
NU2992	2032992	460	620	95	4	4	502		1650	2930	800	950		486	591		3	3	83.1
NUP2992	2092992	460	620	95	4	4	502		1650	2930	800	950		486	591		3	3	85
NU1092	32192	460	680	100	6	6	516		1580	2740	800	950		496	640		5	5	123
NU3092	3032192	460	680	163	6	6	523		2570	5400	600	750		496	640		5	5	207
NU3192	3032792	460	760	240	7.5	7.5	531		4950	10400	400	480		506	730		6	6	467
NU2292	32592	460	830	212	7.5	7.5	560		4500	7900	400	480		502	782		6	6	521
NU1996	1032996	480	650	78	5	5	525		1200	2390	400	480		510	617		4	4	75
NU2996	2032996	480	650	100	5	5	525		1600	3450	400	480		510	617		4	4	98.5
NU1096	32196	480	700	100	6	6	536		1620	2860	400	480		517	660		5	5	125
NU3096	3032196	480	700	165	6	6	543		2620	5600	400	480		517	660		5	5	217
NU19/500	10329/500	500	670	78	5	5	544		1190	2120	750	900		529	648		4	4	79
NU29/500	20329/500	500	670	100	5	5	543		1870	4300	750	900		529	648		4	4	101
N39/500E	30029/500	500	670	128	5	5	543		2060	4960	700	850		529	648		4	4	135
NU10/500	321/500	500	720	100	6	6	556		1660	2970	670	800		537	680		5	5	131
NU20/500	20321/500	500	720	128	6	6	553		2720	5600	630	750		537	680		5	5	180
NU30/500	30321/500	500	720	167	6	6	554		3500	7650	600	700		537	680		5	5	232
NU31/500E	30327/500	500	830	264	7.5	7.5	576		6200	1100	500	600		537	680		5	5	595
NU12/500		500	920	185	7.5	7.5	604		5180	8450	560	670		533	887		6	6	585
NF28/530	20128/530	530	650	72	3	3		622	1160	2800	750	900		544	636		2.5	2.5	52.2
NJ28/530	20428/530	530	650	72	3	3	560.5		1170	2750	750	900		544	636		2.5	2.5	52
NU19/530	10329/530	530	710	82	5	5	575		1460	2910	750	900		566	690		4	4	92
NU29/530	20329/530	530	710	106	5	5	573		2180	4600	750	900		566	690		4	4	119
NUP29/530	20929/530	530	710	106	5	5	573		2180	4600	700	850		566	690		4	4	125
NU10/530	321/530	530	780	112	6	6	593		2200	4050	670	800		570	754		5	5	190
NU20/530	20321/530	530	780	145	6	6	591		3500	7100	560	670		570	754		5	5	255
N30/530	30021/530	530	780	185	6	6		724	4000	8200	560	670	587			754	5	5	310
N31/530	30027/530	530	870	272	7.5	7.5		801	6500	11200	480	560	611			834	6	6	680
NU32/530	30322/530	530	980	355	9.5	9.5	645		9150	17400	420	520		582	921		8	8	1230
NJ18/560	10428/560	560	680	56	3	3	591		780	1750	700	850		584	647		2.5	2.5	44.5
NU28/560	20328/560	560	680	72	3	3	594		985	2610	700	850		585	653		2.5	2.5	55.6
NU19/560	10329/560	560	750	85	5	5	608		1510	3100	670	800		592	715		4	4	110
NU10/560	321/560	560	820	115	6	6	625		2120	3980	630	750		586	794		5	5	210
NJ10/560	421/560	560	820	115	6	6	625		2120	3980	630	750		586	794		5	5	210
NU20/560	20321/560	560	820	150	6	6	626		3650	6890	530	630		586	794		5	5	290
NU12/560	10322/560	560	1030	206	9.5	9.5	668		6970	10200	480	560		600	990		8	8	805
NU18/600	10328/600	600	730	60	3	3	632		865	1990	670	800		625	716		2.5	2.5	50.5

NU28/600	20328/600	600	730	78	3	3	635		1180	3050	670	800		626	716		2.5	2.5	68
NU19/600	10329/600	600	800	90	5	5	655		1590	3400	630	750		642	780		4	4	130
NUP19/600	10929/600	600	800	90	5	5	655		1590	3400	630	750		642	780		4	4	140
NF19/600	10129/600	600	800	90	5	5	655		1590	3400	630	750	736			780	4	4	135
NU29/600	20329/600	600	800	118	5	5	649		2760	6500	630	750		620	780		4	4	157
NUP29/600	20929/600	600	800	118	5	5	649		2760	6500	630	750		620	780		4	4	165
NU10/600	321/600	600	870	118	6	6	661		2650	5050	600	700		626	844		5	5	245
NU20/600	20321/600	600	870	155	6	6	661		3970	7800	500	600		626	844		5	5	325
N30/600	30321/600	600	870	200	6	6		814	4890	9860	500	600	626			844	5	5	415
N28/630	20028/630	630	780	88	4	4		743	1460	3780	630	750	646			764	3	3	100
NU28/630	20328/630	630	780	88	4	4	668		1460	3780	630	750		646	764		3	3	98
N38/630	30028/630	630	780	112	4	4		745	2100	5400	560	670	646			764	3	3	120
NF38/630	30128/630	630	780	112	4	4		745	2100	5400	560	670	646			764	3	3	125
NU19/630	10329/630	630	850	100	6	6	688		1850	3900	600	700		656	824		5	5	160
NU29/630	20329/630	630	850	128	6	6	683		3100	6800	600	700		656	824		5	5	220
NUP29/630	20929/630	630	850	128	6	6	683		3100	6800	600	700		656	824		5	5	230
NU10/630	10321/630	630	920	128	7.5	7.5	702		3200	6000	450	530		666	887		6	6	285
NUP10/630	10921/630	630	920	128	7.5	7.5	702		3200	6000	450	530		666	887		6	6	285
NU20/630	20321/630	630	920	170	7.5	7.5	699		4500	9000	480	560		666	887		6	6	285
NU30/630	30321/630	630	920	212	7.5	7.5	699		6230	1420	450	530		666	887		6	6	490
NJ18/670	10428/670	670	820	69	4	4	708		1190	2540	560	670		700	787		3	3	84.5
NU28/670	20328/670	670	820	88	4	4	711		1500	3950	560	670		700	787		3	3	103
NU38/670	30328/670	670	820	112	4	4	711		1920	5200	530	630		700	787		3	3	128
NU19/670	10329/670	670	900	103	6	6	728		2100	4500	530	630		696	874		5	5	195
NUP19/670	10929/670	670	900	103	6	6	728		2100	4500	530	630		696	874		5	5	195
NU10/670	10321/670	670	980	136	7.5	7.5	747		3500	5890	430	500		703	947		6	6	350
NU20/670	20321/670	670	980	180	7.5	7.5	746		5160	9800	430	500		703	947		6	6	480
NU30/670	30321/670	670	980	230	7.5	7.5	744	914	6420	12100	430	500		703	947		6	6	600
NU18/710	10328/710	710	870	74	4	4	750		1400	3080	530	630		726	854		3	3	97.5
N28/710	20028/710	710	870	95	4	4		831	1870	4650	530	630	726			854	3	3	130
NU19/710	10329/710	710	950	106	6	6	770		2350	5500	500	600		736	924		5	5	214
NU29/710	20329/710	710	950	140	6	6	766		3450	8400	500	600		736	924		5	5	295
NUP29/710	20929/710	710	950	140	6	6	766		3450	8400	500	600		736	924		5	5	300
NU10/710	321/710	710	1030	140	7.5	7.5	778		4500	8500	430	500		743	997		6	6	415
NU20/710	20321/710	710	1030	185	7.5	7.5	787		5600	11200	400	480		743	997		6	6	540
NU18/750		750	920	78	5	5	794		1240	3240	500	600		770	900		4	4	110
NU28/750		750	920	100	5	5	797		1860	5000	500	600		786	882		4	4	145
NF19/750		750	1000	112	6	6		943	2600	5760	480	560	776			974	5	5	265
NU10/750		750	1090	150	7.5	7.5	832		4650	8600	360	430		783	1057		6	6	490
NU20/750		750	1090	195	7.5	7.5	832		6700	13800	360	430		783	1057		6	6	635
NJ18/800		800	980	82	5	5	848		1650	3980	450	530		837	940		4	4	145
NU38/800		800	980	136	5	5	848		2530	7050	400	480		837	940		4	4	219
NU19/800		800	1060	115	6	6	870		2760	6150	430	500		843	1013		5	5	282
NU29/800		800	1060	150	6	6	873		3550	8570	400	480		843	1013		5	5	385
NU28/850		850	1030	106	5	5	900		2130	5950				888	989		4	4	183
NU19/850		850	1120	118	6	6	925		2780	6350				894	1072		5	5	320
NU29/850		850	1120	155	6	6	917		4450	10500				894	1072		5	5	426
NU18/900		900	1090	85	5	5	949		1890	4500				939	1048		4	4	170
NU28/900		900	1090	112	5	5	950		2580	7100				939	1048		4	4	217
NU38/900		900	1090	140	5	5	950		2990	8600				939	1048		4	4	269

NU29/900		900	1180	165	6	6	969		5000	11000				939	1048		5	5	560
NU29/950	20329/950	950	1250	175	7.5	7.5	1024		5160	12000				983	1217		6	6	584
NU18/1000		1000	1220	100	6	6	1053		2550	6060				1026	1194		5	5	265
NU28/1000		1000	1220	128	6	6	1058		3200	8850				1047	1170		5	5	319
NF28/1000		1000	1220	128	6	6		1165	3220	8880			1026		1194		5	5	350
NJ28/1000		1000	1220	128	6	6	1053		3220	8880				1026	1194		5	5	345
N28/1060		1060	1280	128	6	6	1225		3450	10200			1086		1254		5	5	360
NU38/1060		1060	1280	165	6	6	1120		3750	11300				1108	1228		5	5	427
NU29/1060		1060	1400	195	7.5	7.5	1142		6900	16700				1093	1367		6	6	870
NU39/1060		1060	1400	250	7.5	7.5	1146		8900	23900				1093	1367		6	6	1070
NJ18/1120		1120	1360	106	6	6	1182		3400	8500				1146	1334		5	5	335
N28/1180		1120	1360	140	6	6		1296	3880	10200			1146		1334		5	5	465
NU38/1120		1120	1360	180	6	6	1180		5700	17300				1169	1307		5	5	547
NJ18/1180		1180	1420	106	6	6	1242		2960	7180				1206	1394		5	5	350
NUP29/1180		1180	1540	206	7.5	7.5	1258		8800	20200				1213	1507		6	6	1090
N39/1180		1180	1540	272	7.5	7.5		1466	10800	27800			1213		1474		6	6	1400
NU6/1200		1200	1520	185	7.5	7.5	1270		7300	18400				1239	1474		6	6	797
NU19/1250		1250	1630	170	7.5	7.5	1350		6300	15400				1308	1566		6	6	952
N20/1250		1250	1750	290	9.5	9.5		1635	12600	30200			1290		1710		8	8	2320
NU18/1320		1320	1600	122	6	6	1395		3650	9070				1346	1574		5	5	530
NUP18/1320		1320	1600	122	6	6	1395		3650	9070				1346	1574		5	5	560
NU19/1320		1320	1720	175	7.5	7.5	1424		7000	17100				1380	1654		6	6	1100
NU29/1320		1320	1720	230	7.5	7.5	1420		10400	28800				1380	1654		6	6	1480
NU39/1320		1320	1720	300	7.5	7.5	1410		128000	32500				1380	1654		6	6	1950
N30/1320		1320	1850	400	12	12		1737	20400	52200			1430		1803		10	10	3550
N28/1400EM		1400	1700	175	7.5	7.5		1637	6600	18300			1628		1646		6	6	860

Double Row Cylindrical Roller Bearings



Bearing NO.		Boundary dimensions(mm)					Basic load ratings(kN)		Limiting speed(rpm)	Abutment and fillet dimensions(mm)				Weight(kg)
Cylindrical bore	Tapered bore	d	D	B/C	$r_{1, 2min}$	$r_{3, 4min}$	Cr	Cor	Speed Ratings	$d_{a max}$	$D_{a max}$	$r_{a max}$	$r_{b max}$	Refer
NN3920	NN3920K	100	140	30	1.1	1.1	106	182	6300	109	131	1	1	1.32
NNU4920	NNU4920K	100	140	40	1.1	1.1	128	255	6300	111	133.5	1	1	1.9
NN4920	NN4920K	100	140	40	1.1	1.1	128	255	6300	109	131	1	1	1.76
NNUB4920-70	-	100	140	70/40	1.1	1.1	128	255	4800	111	133.5	1	1	2.5
NNUB4920-80	-	100	140	80/40	1.1	1.1	128	255	4800	111	133.5	1	1	2.65
NN3020	NN3020K	100	150	37	1.5	1.5	151	250	6000	111	142	1.5	1.5	2.2
NN3120	-	100	165	52	1.1	1.1	234	360	3600	109	155	1	1	4.38
NNU3120	-	100	165	52	2	2	234	360	3600	112	152	2	2	4.39
NNU4120	NNU4120K30	100	165	65	2	2	358	570	3600	114	155	2	2	5.5
NNU4921	NNU4921K	105	145	40	1.1	1.1	130	260	6000	116	138.5	1	1	2
NN4921	-	105	145	40	1.1	1.1	130	260	6000	114	136	1	1	2
NNU3021	NNU3021K	105	160	41	2	2	190	305	5600	-	150	2	2	2.8
NN3021	NN3021K	105	160	41	2	2	190	305	5600	117	147	2	2	2.88

NNU4121	NNU4121K30	105	175	69	2	2	413	670	3400	120	165	2	2	6.7
NN3922	NN3922K	110	150	30	1.1	1.1	114	207	6000	119	141	1	1	1.41
NNU4922	NNU4922K	110	150	40	1.1	1.1	132	270	6000	121	143.5	1	1	2.05
NN4922	NN4922K	110	150	40	1.1	1.1	132	270	6000	119	141	1	1	2.1
NNUB4922	-	110	150	55/40	1.1	1.1	132	270	4500	121	143.5	1	1	2.4
NN3022	NN3022K	110	170	45	2	2	220	360	5300	-	160	2	2	3.55
NNU3022	-	110	170	45	2	2	220	360	5300	122	157	2	2	3.74
NN3122	-	110	180	56	1.1	1.1	290	450	3200	119	170	1	1	5.4
NNU4122	NNU4122K30	110	180	69	2	2	418	710	3200	125	170	2	2	6.95
NN3924	NN3924K	120	165	34	1.1	1.1	138	251	5300	130	155	1	1	2.02
NNU4924	NNU4924K	120	165	45	1.1	1.1	176	340	5300	133	158.5	1	1	2.8
NN4924	NN4924K	120	165	45	1.1	1.1	176	340	5300	130	155	1	1	2.87
NN3024	NN3024K	120	180	46	2	2	229	390	5000	-	170	2	2	3.85
NNU3024	-	120	180	46	2	2	229	390	5000	132	167	2	2	4.07
NN3124	NN3124K	120	200	62	2	2	355	550	3000	132	167	2	2	7.72
NNU4124	NNU4124K30	120	200	80	2	2	523	865	3000	137	190	2	2	11
NNUB4224X2-130	-	120	215	130/100	2×60°	1.1	704	1120	2200	137	209.5	1	1	15.5
NN4826	-	130	165	35	1	1	107	238	5000	138	156	1	1	1.82
NN3926	NN3926K	130	180	37	1.5	1.5	173	325	4800	141	168	1.5	1.5	2.59
NNU4926	NNU4926K	130	180	50	1.5	1.5	187	390	4800	144	172	1.5	1.5	3.85
NN4926	NN4926K	130	180	50	1.5	1.5	187	390	4800	141	169	1.5	1.5	3.84
NN3026	NN3026K	130	200	52	1.1	2	284	475	4500	-	190	2	2	5.75
NNU3026	NNU3026K	130	200	52	2	2	284	475	4500	142	187	2	2	5.92
NNU3126	-	130	210	64	2	2	360	580	2800	142	196	2	2	8.49
NNU4126	NNU4126K30	130	210	80	2	1.1	561	965	2800	148	200	2	2	10.5
NN3928	NN3928K	140	190	37	1.5	1.5	201	375	4500	151	179	1.5	1.5	2.78
NNU4928	NNU4928K	140	190	50	1.5	1.5	190	400	4500	154	182	1.5	1.5	4.1
NN4928	NN4928K	140	190	50	1.5	1.5	190	400	4500	151	179	1.5	1.5	4.07
NN3028	NN3028K	140	210	53	2	2	297	520	4300	-	200	2	2	6.2
NNU3028	-	140	210	53	2	2	297	520	4300	152	196	2	2	6.38
NN3128	-	140	225	68	2.1	2.1	400	650	2600	155	209	2	2	10.1
NNU3128	-	140	225	68	2.1	2.1	400	650	2600	155	209	2	2	10.3
NNU4128	NNU4128K30	140	225	85	2.1	2.1	627	1040	2600	158	214	2	2	13
NN4830	NN4830K	150	190	40	1.1	1.1	194	450	4500	-	182.5	1	1	2.75
NN3930	NN3930K	150	210	45	2	2	262	490	4300	163	196	2	2	4.47
NNU4930	NNU4930K	150	210	60	2	2	330	655	4300	166	200	2	2	6.25
NN4930	NN4930K	150	210	60	2	2	330	655	4300	163	196	2	2	6.36
NN3030	NN3030K	150	225	56	2.1	2.1	330	570	4000	-	214	2	2	7.5
NNU3030	-	150	225	56	2.1	2.1	330	570	4000	165	209	2	2	7.81
NN3130	-	150	250	80	2.1	2.1	535	860	2400	165	234	2	2	15.4
NNU4130	NNU4130K30	150	250	100	2.1	2.1	748	1290	2400	174	239	2	2	18
NN4832	-	160	200	40	1	1	150	355	4000	169	191	1	1	2.95
NN3932	NN3932K	160	220	45	2	2	271	520	4000	173	206	2	2	5.02
NNU4932	NNU4932K	160	220	60	2	2	330	680	4000	176	210	2	2	6.6
NN4932	NN4932K	160	220	60	2	2	330	680	4000	173	206	2	2	6.77

NN3032	NN3032K	160	240	60	2.1	2.1	369	655	3800	-	229	2	2	9.1
NNU3032	-	160	240	60	2.1	2.1	369	655	3800	175	224	2	2	9.48
NN4032	NN4032K	160	240	80	2.1	2.1	510	985	3800	175	224	2	2	12.7
NNU4032	-	160	240	80	2.1	2.1	510	985	3800	175	224	2	2	12.7
NN3132	-	160	270	86	2.1	2.1	620	1000	2200	175	253	2	2	19.8
NNU4132	NNU4132K30	160	270	109	2.1	2.1	935	1530	2200	185	259	2	2	25
NN3934	NN3934K	170	230	45	2	2	280	550	3800	183	216	2	2	5.01
NNU4934	NNU4934K	170	230	60	2	2	336	695	3800	186	220	2	2	6.95
NN4934	NN4934K	170	230	60	2	2	336	695	3800	183	216	2	2	7.13
NNU5934	-	170	230	80	2	2	550	1180	2800	183	220	2	2	9.55
NN3034	NN3034K	170	260	67	2.1	2.1	450	805	3400	-	249	2	2	12.5
NNU3034	NNU3034K	170	260	67	2.1	2.1	450	805	3400	185	244	2	2	12.9
NN3134	-	170	280	88	2.1	2.1	635	1050	2000	185	263	2	2	21.1
NNU3134	-	170	280	88	2.1	2.1	635	1050	2000	185	263	2	2	21.4
NNU4134	NNU4134K30	170	280	109	2.1	2.1	968	1630	2000	195	269	2	2	26
NN4836	-	180	225	45	1	1	225	535	2200	189	215	1	1	4.15
NN3936	NN3936K	180	250	52	2	2	340	655	3400	193	236	2	2	7.2
NNU4936	NNU4936K	180	250	69	2	2	402	850	3400	199	240	2	2	10.5
NN4936	NN4936K	180	250	69	2	2	402	850	3400	193	236	2	2	10.4
NN3036	NN3036K	180	280	74	2.1	2.1	561	1000	3200	-	269	2	2	16.5
NNU3036	-	180	280	74	2.1	2.1	561	1000	3200	195	263	2	2	16.9
NNU4136	NNU4136K30	180	300	118	3	3	1080	1830	1900	208	287	2.5	2.5	32.5
NN3138	-	180	320	104	3	3	840	1420	1800	208	300	2.5	2.5	33.8
NNU4938	NNU4938K	190	260	69	2	2	402	880	3200	209	250	2	2	11
NNU3038	-	190	290	75	2.1	2.1	594	1080	3000	206	273	2	2	17.9
NN3038	NN3038K	190	290	75	2.1	2.1	594	1080	3000	-	279	2	2	17
NN4038	-	190	290	100	2.1	2.1	825	1640	3000	206	273	2	2	24
NNU4138	NNU4138K30	190	320	128	3	3	1320	2200	1800	219	307	2.5	2.5	41
NNU4840	NNU4840K	200	250	50	1.5	1.5	242	600	2400	212	242	1.5	1.5	5.75
NN3940	NN3940K	200	280	60	2.1	2.1	420	815	3000	216	263	2	2	10.6
NNU4940	NNU4940K	200	280	80	2.1	2.1	484	1040	3000	222	269	2	2	15
NN4940	NN4940K	200	280	80	2.1	2.1	484	1040	3000	216	263	2	2	15.3
NN3040	NN3040K	200	310	82	2.1	2.1	644	1140	2000	-	299	2	2	22
NNU3040	NNU3040K	200	310	82	2.1	2.1	644	1140	2000	216	293	2	2	22.9
NN4040	NN4040K	200	310	109	2.1	2.1	890	1730	2000	216	293	2	2	30.4
NNU4040X2	-	200	310	115	2.1	2.1	1010	1860	2000	225	299	2	2	31.5
NNU4140	NNU4140K30	200	340	140	3	3	1470	2550	1700	231	327	2.5	2.5	51
NN3944	NN3944K	220	300	60	2.1	2.1	440	895	2800	236	283	2	2	11.4
NNU4944	NNU4944K	220	300	80	2.1	2.1	512	1140	2800	242	289	2	2	16.5
NN4944	NN4944K	220	300	80	2.1	2.1	512	1140	2800	236	283	2	2	16.6
NNU5944X2	-	220	300	100	2.1	2.1	897	1930	2200	236.5	289	2	2	20.5
NN3044	NN3044K	220	340	90	3	3	809	1460	2600	-	327	2.5	2.5	28.5
NNU3044	-	220	340	90	3	3	809	1460	2600	238	320	2.5	2.5	30
NN4044	NN4044K	220	340	118	3	3	1190	2400	2600	238	320	2.5	2.5	39.8
NN3144	-	220	370	120	4	4	1050	1810	1500	241	346	3	3	51.9

NNU3144	-	220	370	120	4	4	1050	1810	1500	241	346	3	3	52.3
NNU4144	NNU4144K30	220	370	150	4	4	1650	2900	1500	254	354	3	3	65
NNU4848	NNU4848K	240	300	60	2	2	358	930	2200	255	290	2	2	9.9
NN4848	-	240	300	60	1.1	1.1	358	930	2200	252	287	1	1	9.77
NN3948	NN3948K	240	320	60	2.1	2.1	460	975	2600	257	302	2	2	12.2
NNU4948	NNU4948K	240	320	80	2.1	2.1	528	1220	2600	262	309	2	2	17.5
NN4948	NN4948K	240	320	80	2.1	2.1	528	1220	2600	257	302	2	2	17.9
NNU5948X2	-	240	320	100	2.1	2.1	880	1960	1400	255	293	2	2	22.5
NN3048	NN3048K	240	360	92	3	3	842	1560	2400	-	347	2.5	2.5	32
NNU3048	NNU3048K	240	360	92	3	3	842	1560	2400	259	340	2.5	2.5	30.8
NN4048	NN4048K	240	360	118	3	3	1240	2600	2400	259	340	2.5	2.5	39.3
NNU4048	-	240	360	118	3	3	1240	2600	2400	259	340	2.5	2.5	42.7
NN3148	NN3148K	240	400	128	4	4	1170	2040	1400	262	376	3	3	64.2
NNU4148	NNU4148K30	240	400	160	4	4	1980	3650	1400	278	384	3	3	85
NN3952	NN3952K	260	360	75	2.1	2.1	670	1380	2400	277	342	2	2	21.4
NNU4952	NNU4952K	260	360	100	2.1	2.1	748	1700	2400	288	349	2	2	30.5
NN4952	NN4952K	260	360	100	2.1	2.1	748	1700	2400	277	342	2	2	28.3
NNU4952X2	-	260	360	102	2.1	2.1	990	2200	1800	283	349	2	2	32
NNU3052	NN3052K	260	400	104	4	4	1020	1930	2200	-	384	3	3	46
NN3052	NN3052K	260	400	104	4	4	1030	1920	2200	282	376	3	3	47.7
NNU4052	NNU4052K	260	400	140	4	4	1550	3150	1500	289	384	3	3	63.5
NN4052	NN4052K	260	400	140	4	4	1550	3150	1500	282	376	3	3	59.7
NN3152	NN3152K	260	440	144	4	4	1480	2660	1300	282	415	3	3	89.1
NNU4152	NNU4152K30	260	440	180	4	4	2200	3900	1300	300	424	3	3	110
NNU4856	NNU4856K	280	350	69	2	2	445	1160	1700	298	340	2	2	15.5
NN4856	-	280	350	69	1.1	1.1	445	1160	1700	293	336	1	1	15.3
NN3956	NN3956K	280	380	75	2.1	2.1	695	1460	2200	297	361	2	2	22.7
NNU4956	NNU4956K	280	380	100	2.1	2.1	765	1800	2200	308	369	2	2	32.5
NNUP4956	-	280	380	100	2.1	2.1	765	1800	1600	-	369	2	2	33.5
NN4956	NN4956K	280	380	100	2.1	2.1	765	1800	1600	297	361	2	2	32.9
NN3056	NN3056K	280	420	106	4	4	1080	2080	2000	-	404	3	3	49.5
NNU3056	-	280	420	106	4	4	1080	2080	2000	302	395	3	3	51.4
NNU4056	NNU4056K	280	420	140	4	4	1650	3150	1400	309	404	3	3	66.5
NN3156	NN3156K	280	460	146	5	5	1520	2790	1200	306	431	4	4	95.7
NNU4156	NNU4156K30	280	460	180	5	5	2550	4750	1200	318	440	4	4	120
NNU4860	NNU4860K	300	380	80	2.1	2.1	583	1560	1600	320	369	2	2	22
NNU4960	NNU4960K	300	420	118	3	3	1020	2360	2000	335	406	2.5	2.5	50
NN4960	NN4960K	300	420	118	3	3	1020	2360	2000	320	398	2.5	2.5	51.6
NNU5960X2	-	300	420	150	1.5	1.5	1870	4500	1600	328	412	1.5	1.5	55.5
NN3060	NN3060K	300	460	118	4	4	1250	2400	1900	-	444	3	3	68.5
NNU4060	NNU4060K	300	460	160	4	4	1920	4100	1300	333	444	3	3	96
NN4060	NN4060K	300	460	160	4	4	1920	4100	1300	323	435	3	3	97.6
NN3160	NN3160K	300	500	160	5	5	1760	3150	1100	327	470	4	4	125
NNU3160	-	300	500	160	5	5	1760	3150	1100	327	470	4	4	126
NNU4160	NNU4160K30	300	500	200	5	5	2860	5300	1100	344	480	4	4	155

NNU4864	NNU4864K	320	400	80	2.1	2.1	765	2080	1500	340	389	2	2	23.5
NNU4964	NNU4964K	320	440	118	3	3	1060	2500	1400	355	426	2.5	2.5	53
NNUP4964	-	320	440	118	3	3	1060	2500	1400	-	426	2.5	2.5	55.5
NN4964	NN4964K	320	440	118	3	3	1060	2500	1400	340	418	2.5	2.5	50.2
NN3064	NN3064K	320	480	121	4	4	1320	2600	1800	-	464	3	3	74
NNU3064	NNU3064K	320	480	121	4	4	1320	2600	1800	343	454	3	3	76.9
NNU4064	NNU4064K	320	480	160	4	4	2120	4300	1200	353	464	3	3	100
NNU4064X2	-	320	480	175	1.5	1.5	2460	5400	1200	359	472	1.5	1.5	115
NNU3164	NNU3164K	320	540	176	5	5	2090	3750	1000	347	509	4	4	154
NNU4164	NNU4164K30	320	540	218	5	5	3410	6200	1000	365	520	4	4	200
NNU4868	NNU4868K	340	420	80	2.1	2.1	644	1830	1400	360	409	2	2	25
NNUP4868	-	340	420	80	2.1	2.1	644	1830	1400	-	408	2	2	24.5
NN3968	NN3968K	340	460	90	3	3	905	2020	1700	361	438	2.5	2.5	42.9
NNU4968	NNU4968K	340	460	118	3	3	1100	2650	1700	375	446	2.5	2.5	56
NN4968	NN4968K	340	460	118	3	3	1100	2650	1700	361	438	2.5	2.5	52.1
NN3068	NN3068K	340	520	133	5	5	1670	3300	1600	368	490	4	4	102
NNU3068	-	340	520	133	5	5	1670	3300	1600	368	490	4	4	103
NNU4068	NNU4068K	340	520	180	5	5	2550	5100	1100	377	500	4	4	140
NNUB4068X2-305	-	340	520	305/20	5	5	3300	7100	1100	374	500	4	4	185
NNU4168	NNU4168K30	340	580	243	5	5	4020	7500	950	392	560	4	4	260
NN3972	-	360	480	90	3	3	930	2130	1700	381	457	2.5	2.5	44.9
NNU4972	NNU4972K	360	480	118	3	3	1120	2800	1700	395	466	2.5	2.5	58.5
NN3072	NN3072K	360	540	134	5	5	1720	3450	1500	-	520	4	4	105
NNU3072	-	360	540	134	5	5	1700	3450	1500	388	509	4	4	108
NNU4072	NNU4072K	360	540	180	5	5	2530	5450	1100	397	520	4	4	140
NN4072	NN4072K	360	540	180	5	5	2530	5450	1100	388	509	4	4	132
NNU4172	NNU4172K30	360	600	243	5	5	4290	8500	900	414	580	4	4	275
NNU4876	NNU4876K	380	480	100	2.1	2.1	952	2550	1200	406	469	2	2	44
NNU4976	NNU4976K	380	520	140	4	4	1450	3600	1500	421	504	3	3	87.5
NN4976	NN4976K	380	520	140	4	4	1450	3600	1500	404	493	3	3	81.3
NN3076	NN3076K	380	560	135	5	5	1680	3450	1500	-	540	4	4	110
NNU4076	NNU4076K	380	560	180	5	5	2650	6200	1000	417	540	4	4	150
NN4076	NN4076K	380	560	180	5	5	2650	6200	1000	408	529	4	4	142
NN3176	NN3176K	380	620	194	5	5	2620	4950	850	408	588	4	4	224
NNU4176	NNU4176K30	380	620	243	5	5	4290	8500	850	434	600	4	4	285
NNU4880	NNU4880K	400	500	100	2.1	2.1	968	2750	1200	426	489	2	2	46
NNUP4880	-	400	500	100	2.1	2.1	968	2750	1200	-	488	2	2	45.5
NN3980	-	400	540	106	4	4	1290	2890	1500	425	513	3	3	68.7
NNU4980	NNU4980K	400	540	140	4	4	1470	3800	1500	441	524	3	3	91.5
NN4980	NN4980K	400	540	140	4	4	1470	3800	1500	425	513	3	3	84.1
NN3080	NN3080K	400	600	148	5	5	2160	4500	1400	-	580	4	4	140
NNU4080	NNU4080K	400	600	200	5	5	3470	7200	950	440	580	4	4	205
NNU4180	NNU4180K30	400	650	250	6	6	4730	9500	800	456	624	5	5	325
NNU4884	NNU4884K	420	520	100	2.1	2.1	990	2850	1000	446	509	2	2	48
NN3984	-	420	560	106	4	4	1280	2900	900	445	533	3	3	71.2

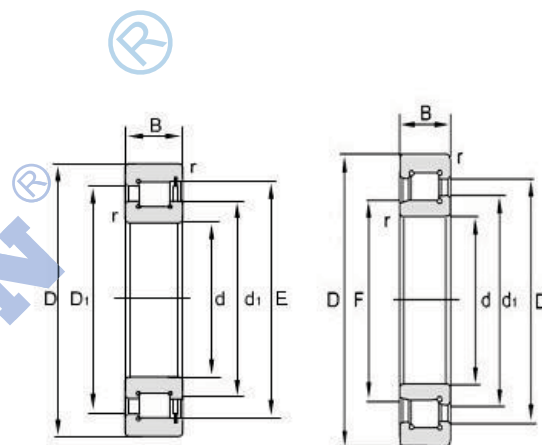
NNU4984	NNU4984K	420	560	140	4	4	1510	4000	1400	461	544	3	3	95.5
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NN3084	NN3084K	420	620	150	5	5	2120	4500	1300	-	600	4	4	145
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NNU4084	NNU4084K	420	620	200	5	5	3150	7100	900	460	600	4	4	183
NN4084	NN4084K	420	620	200	5	5	3150	7100	900	449	588	4	4	189
NNUP5084X2	-	420	620	260	6	6	4290	10200	900	-	594	5	5	280
NNU3184	-	420	650	200	6	6	2770	5400	800	435	611	5	5	262
NNU4184	NNU4184K30	420	700	280	6	6	5500	11400	750	480	674	5	5	440
NNU4888	NNU4888K	440	540	100	2.1	2.1	1010	2900	1000	464	529	2	2	50
NNU4988	NNU4988K	440	600	160	4	4	2050	5200	1300	484	584	3	3	130
NN3088	NN3088K	440	650	157	6	6	2360	4900	1200	-	624	5	5	170
NNU3088	-	440	650	157	6	6	2360	4900	1200	476	611	5	5	178
NNU4088	NNU4088K	440	650	212	6	6	3910	8300	850	477	624	5	5	215
NNU3184	-	440	700	224	6	6	3550	6800	800	455	660	5	5	347
NNU4188	NNU4188K30	440	720	280	6	6	5720	11800	700	500	694	5	5	450
NNU4892	NNU4892K	460	580	118	3	3	1190	3250	1000	489	566	2.5	2.5	75
NN3992	NN3992K	460	620	118	4	4	1610	3700	1200	486	591	3	3	94.5
NNU4992	NNU4992K	460	620	160	4	4	2090	5500	1200	504	604	3	3	135
-	NN3092K	460	680	163	6	6	2600	5500	1200	-	654	5	5	195
NNU4092	NNU4092K	460	680	218	6	6	4290	9000	800	503	654	5	5	240
NN3192	NN3192K	460	720	226	6	6	3500	6800	750	476	680	5	5	357
NNU4192	NNU4192K30	460	760	300	7.5	7.5	6440	13200	670	526	727	6	6	535
NNU4996	NNU4996K	480	650	170	5	5	2330	6100	1200	528	630	4	4	160
NN4996	NN4996K	480	650	170	5	5	2330	6100	1200	510	617	4	4	164
NN3096	NN3096K	480	700	165	6	6	2700	5850	1100	-	674	5	5	200
NNU4096	NNU4096K	480	700	218	6	6	4400	9650	750	523	674	5	5	275
NNU5096X2	-	480	700	260	6	6	5390	12500	750	527	674	5	5	345
NN3196	NN3196K	480	790	248	7.5	7.5	4050	8100	630	523	742	6	6	447
NNU4196	NNU4196K30	480	790	308	7.5	7.5	7040	14300	630	545	757	6	6	590
NNU49/500	NNU49/500K	500	670	170	5	5	2330	6100	1100	548	650	4	4	165
NN49/500X1	-	500	700	170	5	5	2700	5400	800	549	680	4	4	210
NN30/500	NN30/500K	500	720	167	6	6	2580	5600	1100	-	694	5	5	210
NNU30/500	-	500	720	167	6	6	2580	5600	1100	537	680	5	5	220
NNU40/500	NNU40/500K	500	720	218	6	6	4460	10000	750	543	694	5	5	285
NNU41/500	NNU41/500K30	500	830	325	7.5	7.5	7480	15000	600	568	797	6	6	710
NNU39/500	-	530	710	136	5	5	2040	4900	1000	561	676	4	4	149
NNU49/530	NNU49/530K	530	710	180	5	5	2860	7800	1000	582	690	4	4	200
NN49/530	NN49/530K	530	710	180	5	5	2860	7800	1000	561	676	4	4	202
NN30/530	NN30/530K	530	780	185	6	6	3200	6900	1000	-	754	5	5	270
NNU30/530	NNU30/530K	530	780	185	6	6	3200	6900	1000	568	738	5	5	296
NNU40/530	NNU40/530K	530	780	250	6	6	5500	12200	670	580	754	5	5	420
NNU41/530	NNU41/530K30	530	870	335	7.5	7.5	7810	16000	560	604	837	6	6	790
NNU49/560	NNU49/560K	560	750	190	5	5	3190	8650	950	619	730	4	4	235
NN30/560	NN30/560K	560	820	195	6	6	3690	8000	900	-	794	5	5	315

NNU40/560	NNU40/560K	560	820	258	6	6	4100	10600	630	615	794	5	5	475
NN40/560	-	560	820	258	6	6	4100	10600	630	598	778	5	5	472
NNU31/560	-	560	920	280	7.5	7.5	6850	13700	530	604	870	6	6	738
NNU41/560	NNU41/560K30	560	920	355	7.5	7.5	8800	18300	530	638	887	6	6	930
NNU49/600	NNU49/600K	600	800	200	5	5	3580	10200	900	662	780	4	4	280
NN30/600	NN30/600K	600	870	200	6	6	3800	8650	850	-	844	5	5	355
NNU40/600	NNU40/600K	600	870	272	6	6	6820	15600	600	653	844	5	5	530
NNU41/600	NNU41/600K30	600	980	375	7.5	7.5	9900	21100	480	682	947	6	6	1100
NNU48/630	-	630	780	150	4	4	2290	7000	800	659	748	3	3	160
NNU49/630	NNU49/630K	630	850	218	6	6	4020	11400	850	699	824	5	5	355
NN49/630	NN49/630K	630	850	218	6	6	4020	11400	850	670	807	5	5	328
NN30/630	NN30/630K	630	920	212	7.5	7.5	4290	9800	800	-	887	6	6	430
NNU40/630	NNU40/630K	630	920	290	7.5	7.5	7650	17500	560	688	887	6	6	635
NNU41/630	NNU41/630K30	630	1030	400	7.5	7.5	11000	24000	450	716	997	6	6	1330
NNU49/670	NNU49/670K	670	900	230	6	6	4150	11500	800	732	874	5	5	410
NN49/670	-	670	900	230	6	6	4150	11500	800	710	856	5	5	419
NN30/670	NN30/670K	670	980	230	7.5	7.5	5010	11400	750	-	947	6	6	530
NNU40/670	NNU40/670K	670	980	308	7.5	7.5	8420	19600	500	733	947	6	6	765
NNU41/670	NNU41/670K30	670	1090	412	7.5	7.5	12100	25500	430	756	1057	6	6	1500
NNU48/710	-	710	870	160	4	4	2640	8350	750	741	836	3	3	203
NNU49/710	NNU49/710K	710	950	243	6	6	5390	15300	700	776	924	5	5	480
NN30/710	NN30/710K	710	1030	236	7.5	7.5	5720	13200	670	-	997	6	6	590
NNU40/710	NNU40/710K	710	1030	315	7.5	7.5	9350	21600	480	772	997	6	6	850
NNU41/710	NNU41/710K30	710	1150	438	9.5	9.5	13400	28500	380	800	1110	8	8	1790
NN48/750	NN48/750K	750	920	170	5	5	3410	10200	550	-	904	4	4	240
NNU49/750	NNU49/750K	750	1000	250	6	6	5500	16000	670	824	974	5	5	540
NN30/750	NN30/750K	750	1090	250	7.5	7.5	7040	16000	630	-	1057	6	6	705
NNU40/750	NNU40/750K	750	1090	335	7.5	7.5	10200	24000	430	816	1057	6	6	925
NNU41/750	NNU41/750K30	750	1220	475	9.5	9.5	16100	35500	360	850	1180	8	8	2230
NNU49/800	NNU49/800K	800	1060	258	6	6	5830	17000	380	876	1034	5	5	615
NN30/800	NN30/800K	800	1150	258	7.5	7.5	7810	18000	360	-	1117	6	6	790
NNU40/800	NNU40/800K	800	1150	345	7.5	7.5	10800	26000	360	871	1117	6	6	1140
NNU41/800	NNU41/800K30	800	1280	475	9.5	9.5	16500	36500	340	900	1240	8	8	2390
NNU48/850	-	850	1030	180	5	5	3400	11400	370	888	989	4	4	310
NNU49/850	NNU49/850K	850	1120	272	6	6	5940	18000	360	930	1094	5	5	360
NN30/850	NN30/850K	850	1220	272	7.5	7.5	7920	18600	340	-	1187	6	6	480
NNU40/850	NNU40/850K	850	1220	365	7.5	7.5	11700	28500	340	923	1187	6	6	300
NNU49/900	NNU49/900K	900	1180	280	6	6	6600	20000	340	977	1154	5	5	805
NN30/900	NN30/900K	900	1280	280	7.5	7.5	8250	20000	320	-	1257	6	6	1050
NNU40/900	NNU40/900K	900	1280	375	7.5	7.5	12800	31500	320	963	1257	6	6	1500
NNU49/950	NNU49/950K	950	1250	300	7.5	7.5	7370	22400	320	1036	1217	6	6	960
NN30/950	NN30/950K	950	1360	300	7.5	7.5	9130	22400	310	-	1327	6	6	1300
NNU40/950	NNU40/950K	950	1360	412	7.5	7.5	14200	35500	310	1033	1327	6	6	1900
NNU49/1000	NNU49/1000K	1000	1320	315	7.5	7.5	8580	26000	300	1096	1287	6	6	1250
NN49/1000	NN49/1000K	1000	1320	315	7.5	7.5	8580	26000	300	-	1287	6	6	1200

NN30/1000	NN30/1000K	1000	1420	308	7.5	7.5	10100	24500	290	-	1387	6	6	1400
NNU40/1000	NNU40/1000K	1000	1420	412	7.5	7.5	15400	38000	290	1084	1387	6	6	2000
NNU49/1060	NNU49/1060K	1060	1400	335	7.5	7.5	10500	30500	290	1150	1367	6	6	1350
NN30/1060	NN30/1060K	1060	1500	325	9.5	9.5	11000	27500	290	-	1460	8	8	1650
NNU49/1120	NNU49/1120K	1120	1460	335	7.5	7.5	10500	31500	270	1210	1427	6	6	1450
NNU49/1180	NNU49/1180K	1180	1540	355	7.5	7.5	11900	36000	260	1270	1507	6	6	1650
NNU49/1320	NNU49/1320K	1320	1720	400	7.5	7.5	13800	42500	230	1420	1687	6	6	3100
NN49/1320	NN49/1320K	1320	1720	400	7.5	7.5	13800	42500	230	-	1687	6	6	3060



Single Row Full Complement Cylindrical Roller Bearings



Bearing NO.	Boundary dimensions(mm)					Basic load ratings(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)			Weight(kg)
New	d	D	B	$r_{1, 2min}$	$r_{3, 4min}$	Cr	Cor	Grease	Oil	$d_{a min}$	$D_{a max}$	$r_{a max}$	Refer
NCF2920V	100	140	24	1.1	1	132	224	1000	2200	106.5	133.5	1	1.15
NCF3020V	100	150	37	1.5	1	242	375	950	2000	108	142	1.5	2.2
NCF2220V	100	180	46	2.1	2.1	380	530	850	1800	111	169	2	5.1
NJG2320VH	100	215	73	3	-	704	900	600	1200	113	202	2.5	13
NCF2922V	110	150	24	1.1	1	140	250	900	1900	116.5	143.5	1	1.25
NCF3022V	110	170	45	2	1	330	500	850	1800	119	161	2	3.65
NCF2222V	110	200	53	2.1	2.1	440	600	750	1600	122	188	2	7.15
NJG2322VH	110	240	80	3	-	858	1060	560	1100	123	227	2.5	17.5

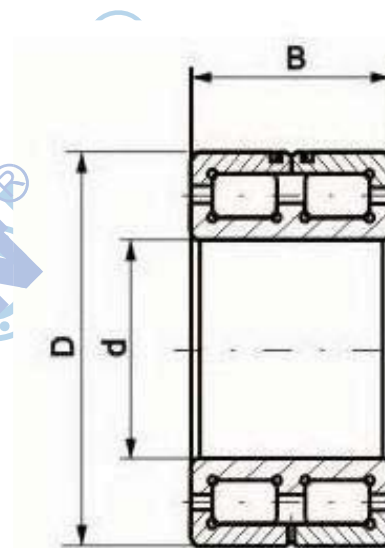
NCF2924V	120	165	27	1.1	1	172	290	850	1800	126.5	158.5	1	1.7
NCF3024V	120	180	46	2	1	341	550	800	1700	129	171	2	3.95
NCF2224V	120	215	58	2.1	2.1	512	735	700	1500	132	203	2	9.05
NJG2324VH	120	260	86	3	-	935	1200	530	1000	133	247	2.5	22.5
NCF2926V	130	180	30	1.5	1.1	205	360	750	1600	138	172	1.5	2.3
NCF3026V	130	200	52	2	1	429	695	700	1500	139	191	2	5.8
NCF2226V	130	230	64	3	3	605	880	670	1400	143	217	2.5	11
NJG2326VH	130	280	93	4	-	1080	1430	500	950	146	264	3	28
NCF2928V	140	190	30	1.5	1.1	220	390	700	1500	148	182	1.5	2.4
NCF3028V	140	210	53	2	1	468	750	670	1400	149	201	2	6.1
NCF2228V	140	250	68	3	3	693	1020	630	1300	153	237	2.5	14.5
NJG2328VH	140	300	102	4	-	1230	1660	450	850	156	284	3	35.5
NCF1830V	150	190	20	1.1	1	108	200	700	1500	157.5	182.5	1	1.3
NCF2830V	150	190	24	1.1	1	145	285	700	1500	157.5	182.5	1	1.7
NCF2930V	150	210	36	2	1.1	286	500	670	1400	159	201	2	3.85
NCF3030V	150	225	56	2.1	1.1	539	865	630	1300	161	214	2	7.5
NCF2230V	150	270	73	3	3	792	1180	600	1200	163	257	2.5	18.5
NJG2330VH	150	320	108	4	-	1450	1930	430	800	166	177	3	42.5
NCF1832V	150	200	20	1.1	1	112	212	670	1400	167.5	192.5	1	1.45
NCF2832V	160	200	24	1.1	1	147	305	670	1400	167.5	192.5	1	1.65
NCF2932V	160	220	36	2	1.1	297	540	630	1300	169	211	2	4.05
NCF3032V	160	240	60	2.1	1.1	583	950	600	1200	171	229	2	9.1
NCF2232V	160	290	80	3	3	990	1500	560	1100	173	277	2.5	23
NCF1834V	170	215	22	1.5	1.5	149	272	629	1300	182	204	1.5	1.8
NCF2834V	170	215	27	1.1	1	194	380	630	1300	177.5	207.5	1	2.3
NCF2934V	170	230	36	2	1.1	308	570	600	1200	179	221	2	4.25
NCF3034V	170	260	67	2.1	1.1	737	1180	560	1100	181	249	2	12.5
NCF2234V	170	310	86	4	4	1100	1700	530	1000	186	294	3	28.5
NJG2334VH	170	360	120	4	-	1760	2450	380	700	186	344	3	59.5
NCF1836V	180	225	22	1.1	1	147	275	600	1200	187.5	217.5	1	1.95
NCF2836V	180	225	27	1.1	1	201	405	600	1200	187.5	217.5	1	2.6
NCF2936V	180	250	42	2	1.1	391	695	560	1100	189	241	2	6.25
NCF3036V	180	280	74	2.1	2.1	825	1370	560	1100	191	269	2	16.5
NCF2236V	180	320	86	4	4	1120	1760	500	950	196	304	3	29.5
NJG2336VH	180	380	126	4	-	1870	2650	360	670	196	364	3	69.5
NCF1838V	190	240	24	1.5	1.1	172	320	560	1100	198	232	1.5	2.45
NCF2838V	190	240	30	1.5	1.1	229	465	560	1100	198	232	1.5	3.1
NCF2938V	190	260	42	2	1.1	440	780	560	1100	199	251	2	6.55

NCF3038V	190	290	75	2.1	2.1	858	1430	530	1000	201	279	2	17
NCF2238V	190	340	92	4	4	1230	1960	480	900	206	324	3	36
NCF1840V	200	250	24	1.5	1.1	176	335	560	1100	208	242	1.5	3.4
NCF2840V	200	250	30	1.5	1.1	233	480	560	1100	208	242	1.5	2.6
NCF2940V	200	280	48	2.1	1.5	528	965	530	1000	211	269	2	9.15
NCF3040V	200	310	82	2.1	2.1	990	1700	500	950	211	299	2	22.5
NCF2240V	200	360	98	4	4	1400	2240	450	850	216	344	3	43.5
NJG2340VH	200	420	138	5	-	2290	3200	320	600	220	400	4	92
NCF1844V	220	270	24	1.5	1.1	183	365	530	1000	228	262	1.5	2.85
NCF2844V	220	270	30	1.5	1.1	242	530	530	1000	228	262	1.5	3.9
NCF2944V	220	300	48	2.1	1.5	512	1000	480	900	231	289	2	9.9
NCF3044V	220	340	90	3	3	1190	2040	450	850	233	327	2.5	29.5
NCF1848V	240	300	28	2	1.1	260	510	480	900	249	291	2	4.4
NCF2848V	240	300	36	2	1.1	341	720	480	900	249	291	2	5.7
NCF2948V	240	320	48	2.1	1.5	583	1140	450	850	251	309	2	11
NCF3048V	240	360	92	3	3	1250	2240	430	800	253	347	2.5	32
NJG2348VH	240	500	155	5	5	3140	4400	240	480	260	480	4	147
NCF1852V	260	320	28	2	1.1	270	550	430	800	269	311	2	4.75
NCF2852V	260	320	36	2	1.1	352	780	430	800	269	311	2	6.2
NCF2952V	260	360	60	2.1	1.5	737	1430	400	750	271	349	2	18.5
NCF3052V	260	400	104	4	4	1610	2850	380	700	276	384	3	46.5
NJG2352VH	260	540	165	6	-	3580	5000	200	430	286	514	5	177
NCF3352V	260	540	206	6	6	4290	6300	150	320	286	514	5	220
NCF1856V	280	350	33	2	1.1	330	655	400	750	289	341	2	7.1
NCF2856V	280	350	42	2	1.1	446	1000	400	750	289	341	2	9
NCF2956V	280	380	60	2.1	1.5	897	1730	380	700	291	369	2	20
NCF3056V	280	420	106	4	4	1680	3050	360	670	296	404	3	50
NCF1860V	300	380	38	2.1	1.5	418	850	360	670	311	369	2	10
NCF2860V	300	380	48	2.1	1.5	572	1250	360	670	311	369	2	12
NCF2960V	300	420	72	3	3	1120	2200	340	630	313	407	2.5	31.5
NCF3060V	300	460	118	4	4	2090	3750	320	600	316	444	3	69
NCF1864V	320	400	38	2.1	1.5	440	900	340	630	331	389	2	10.5
NCF2864V	320	400	48	2.1	1.5	583	1320	340	630	331	389	2	13.5
NCF2964V	320	440	72	3	3	1140	2360	320	600	333	427	2.5	33
NCF3064V	320	480	121	4	4	2120	3900	300	560	336	464	3	74.5
NCF1868V	340	420	38	2.1	2.1	475	985	300	560	359	402	2	10.7
NCF2968V	340	460	72	3	3	1190	2500	300	560	353	447	2.5	35
NCF3068V	340	520	133	5	5	2240	4250	280	530	360	500	4	100

NCF1872V	360	440	38	2.1	1.5	457	1000	300	560	371	429	2	12
NCF2872V	360	440	48	2.1	1.5	627	1460	300	560	371	429	2	15
NCF2972V	360	480	72	3	3	1230	2600	280	530	373	467	2.5	36.5
NCF3072V	360	540	134	5	5	2640	4900	260	500	380	520	4	105
NCF1876V	380	480	46	2.1	1.5	627	1290	280	530	391	469	2	19.5
NCF2876V	380	480	60	2.1	1.5	897	2080	280	530	391	469	2	25
NCF2976V	380	520	82	4	4	1570	3250	260	500	396	504	3	52.5
NCF3076V	380	560	135	5	5	2700	5100	240	480	400	540	4	110
NCF1880V	400	500	46	2.1	1.5	627	1340	260	500	411	489	2	20.5
NCF2880V	400	500	60	2.1	1.5	913	2160	260	500	411	489	2	26.5
NCF2980V	400	540	82	4	4	1650	3450	240	480	416	524	3	54.5
NCF3080V	400	600	148	5	5	3190	6100	220	450	420	580	4	145
NCF1884V	420	520	46	2.1	1.5	660	1430	240	480	431	509	2	21
NCF2884V	420	520	60	2.1	1.5	952	2280	240	480	431	509	2	28
NCF2984V	420	560	82	4	4	1650	3600	220	450	436	544	3	57
NCF3084V	420	620	150	5	5	3300	6300	200	430	440	600	4	150
NCF1888V	440	540	46	2.1	1.5	671	1460	220	450	451	529	2	22
NCF2888V	440	540	60	2.1	1.5	968	2360	220	450	451	529	2	29
NCF2988V	440	600	95	4	4	2010	4400	200	430	456	584	3	80.5
NCF3088V	440	650	157	6	6	3740	7350	190	400	466	624	5	175
NCF1892V	460	580	56	3	3	913	1960	200	430	473	567	2.5	34
NCF2892V	460	580	72	3	3	1300	3050	200	430	473	567	2.5	44
NCF2992V	460	620	95	4	4	2050	4500	190	400	476	604	3	83.5
NCF3092V	460	680	163	6	6	4130	8000	180	380	486	654	5	195
NCF1896V	480	600	56	3	3	935	2040	190	400	493	587	2.5	35.5
NCF2896V	480	600	72	3	3	1320	3150	190	400	493	587	2.5	46
NCF2996V	480	650	100	5	5	2290	5100	180	380	500	630	4	98
NCF3096V	480	700	165	6	6	4180	8300	170	360	506	674	5	205
NCF18/500V	500	620	56	3	3	952	2120	180	380	513	607	2.5	35.5
NCF28/500V	500	620	72	3	3	1340	3350	180	380	513	607	2.5	48
NCF29/500V	500	670	100	5	5	2380	5300	170	360	520	650	4	100
NCF30/500V	500	720	167	6	6	4290	8650	170	360	526	694	5	215
NCF18/530V	530	650	56	3	3	990	2240	170	360	543	637	2.5	37.5
NCF28/530V	530	650	72	3	3	1400	3450	170	360	543	637	2.5	49.5
NCF29/530V	530	710	106	5	5	2700	6000	160	340	550	690	4	120
NCF30/530V	530	780	185	6	6	5230	10600	150	320	556	754	5	300
NCF18/560V	560	680	56	3	3	1020	2360	160	340	573	667	2.5	40.5
NCF28/560V	560	680	72	3	3	1420	3650	160	340	573	667	2.5	54

NCF29/560V	560	750	112	5	5	3030	6700	150	320	580	730	4	140
NCF30/560V	560	820	195	6	6	5830	11800	140	300	586	794	5	345
NCF18/600V	600	730	60	3	3	1050	2550	150	320	613	717	2.5	49.5
NCF28/600V	600	730	78	3	3	1570	4300	150	320	613	717	2.5	67.5
NCF29/600V	600	800	118	5	5	3360	7500	140	300	620	780	4	170
NCF18/630V	630	780	69	4	4	1250	2900	140	300	646	764	3	70
NCF28/630V	630	780	88	4	4	1870	5000	140	300	646	764	3	92.5
NCF29/630V	630	850	128	6	6	3740	8650	130	280	656	824	5	205
NCF18/670V	670	820	69	4	4	1300	3150	130	280	686	804	3	74
NCF28/670V	670	820	88	4	4	1940	5300	130	280	686	804	3	97.5
NCF29/670V	670	900	136	6	6	3800	8650	120	260	696	874	5	245
NCF18/710V	710	870	74	4	4	1540	3750	120	260	726	854	3	90
NCF28/710V	710	870	95	4	4	2330	6300	120	260	726	854	3	115
NCF29/710V	710	950	140	6	6	3910	9150	110	240	736	924	5	275
NCF18/750V	750	920	78	5	5	1760	4300	110	240	770	900	4	110
NCF28/750V	750	920	100	5	5	2510	6800	110	240	770	900	4	140
NCF29/750V	750	1000	145	6	6	4460	10600	100	220	796	974	5	315
NCF18/800V	800	980	82	5	5	1940	4800	100	220	820	960	4	130
NCF28/800V	800	980	106	5	5	2750	7500	100	220	820	960	4	165
NCF29/800V	800	1060	150	6	6	4950	12200	95	200	836	1034	5	360
NCF18/850V	850	1030	82	5	5	2050	5200	95	200	870	1010	4	135
NCF28/850V	850	1030	106	5	5	2860	8000	95	200	870	1010	4	175
NCF29/850V	850	1120	155	6	6	5280	12900	90	190	886	1084	5	405
NCF18/900V	900	1090	85	5	5	2240	5700	90	190	920	1070	4	160
NCF28/900V	900	1090	112	5	5	3190	9150	90	190	920	1070	4	208
NCF29/900V	900	1180	165	6	6	5940	14600	80	170	936	1154	5	472
NCF18/950V	950	1150	90	5	5	2420	6300	80	170	970	1130	4	185
NCF28/950V	950	1150	118	5	5	3410	9800	80	170	970	1130	4	240
NCF29/950V	950	1250	175	7.5	7.5	6660	16300	75	160	983	1217	6	565
NCF18/1000V	1000	1220	100	6	6	2920	7500	75	160	1026	1194	5	230
NCF28/1000V	1000	1220	128	6	6	4130	11600	75	160	1026	1194	5	310
NCF29/1000V	1000	1320	185	7.5	7.5	7480	18600	70	150	1033	1287	6	680

Double Row Full Complement Cylindrical Roller Bearings



Bearing NO.	Boundary dimensions(mm)					Basic load ratings(kN)		Limiting speed(rpm)		Abutment and fillet dimensions(mm)			Weight(kg)
New	d	D	B	$r_{1, 2min}$	$r_{3, 4min}$	Cr	Cor	Grease	Oil	$d_{a min}$	$D_{a max}$	$r_{a max}$	Refer
NNC4920V	100	140	40	1.1	194	194	400	950	2000	106.5	133.5	1	2
NNCL4920V	100	140	40	1.1	194	194	400	950	2000	106.5	133.5	1	2
NNCF4920V	100	140	40	1.1	194	194	400	950	2000	106.5	133.5	1	2
NNCF5020V	100	150	67	1.5	391	391	680	950	2000	108	142	1.5	4.05

NNC4922V	110	150	40	1.1	201	201	430	900	1900	116.5	143.5	1	2.15
NNCL4922V	110	150	40	1.1	201	201	430	900	1900	116.5	143.5	1	2.15
NNCF4922V	110	150	40	1.1	201	201	430	900	1900	116.5	143.5	1	2.15
NNCF5022V	110	170	80	2	528	528	930	850	1800	119	161	2	6.6
NNCF4924V	120	165	45	1.1	224	224	480	800	1700	126.5	158.5	1	2.9
NNC4924V	120	165	45	1.1	224	224	480	800	1700	126.5	158.5	1	2.9
NNCL4924V	120	165	45	1.1	224	224	480	800	1700	126.5	158.5	1	2.9
NNCF5024V	120	180	80	2	561	561	1020	800	1700	129	171	2	7.1
NNC4926V	130	180	50	1.5	255	255	530	750	1600	138	172	1.5	3.9
NNCL4926V	130	180	50	1.5	255	255	530	750	1600	138	172	1.5	3.9
NNCF4926V	130	180	50	1.5	255	255	530	750	1600	138	172	1.5	3.91
NNCF5026V	130	200	95	2	704	704	1370	700	1500	139	191	2	11
NNC4928V	140	190	50	1.5	264	264	570	700	1500	148	182	1.5	4.15
NNCL4928V	140	190	50	1.5	264	264	570	700	1500	148	182	1.5	4.15
NNCF4928V	140	190	50	1.5	264	264	570	700	1500	148	182	1.5	4.16
NNCF5028CV	140	210	95	2	737	737	1460	670	1400	149	201	2	11.5
NNC4830V	150	190	40	1.1	233	233	585	700	1500	156.5	183.5	1	2.9
NNCL4830V	150	190	40	1.1	233	233	585	700	1500	156.5	183.5	1	2.9
NNC4930V	150	210	60	2	380	380	850	670	1400	159	201	2	6.7
NNCL4930V	150	210	60	2	380	380	850	670	1400	159	201	2	6.7
NNCF4930V	150	210	60	2	380	380	850	670	1400	159	201	2	6.71
NNCF5030V	150	225	100	2.1	842	842	1660	630	1300	161	214	2	14
NNCF4832V	160	200	40	1.1	242	242	620	670	1400	166.5	193.5	1	3.05
NNC4832V	160	200	40	1.1	242	242	620	670	1400	166.5	193.5	1	3.05
NNCL4832V	160	200	40	1.1	242	242	620	670	1400	166.5	193.5	1	3.05
NNCF4932V	160	220	60	2	396	396	900	630	1300	169	211	2	7
NNC4932V	160	220	60	2	396	396	900	630	1300	169	211	2	7
NNCL4932V	160	220	60	2	396	396	900	630	1300	169	211	2	7
NNCF5032V	160	240	109	2.1	968	968	1800	600	1200	171	229	2	17
NNC4834V	170	215	45	1.1	264	264	655	630	1300	176.5	208.5	1	4.1
NNCL4834V	170	215	45	1.1	264	264	655	630	1300	176.5	208.5	1	4.1
NNC4934V	170	230	60	2	413	413	950	600	1200	179	221	2	7.45
NNCL4934V	170	230	60	2	413	413	950	600	1200	179	221	2	7.45
NNCF4934V	170	230	60	2	413	413	950	600	1200	179	221	2	7.46
NNCF5034V	170	260	122	2.1	1140	1140	2120	560	1100	181	249	2	23
NNC4836V	180	225	45	1.1	270	270	695	600	1200	186.5	218.5	1	4.3
NNCL4836V	180	225	45	1.1	270	270	695	600	1200	186.5	218.5	1	4.3

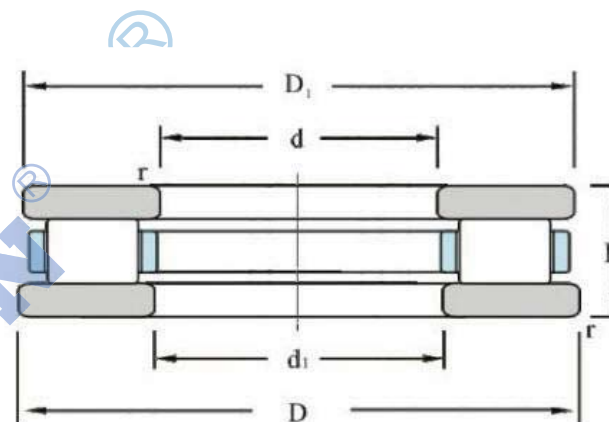
NNC4936V	180	250	69	2	550	550	1220	560	1100	189	241	2	10.5
NNCL4936V	180	250	69	2	550	550	1220	560	1100	189	241	2	10.5
NNCF4936V	180	250	69	2	550	550	1220	560	1100	189	241	2	10.6
NNCF5036V	180	280	136	2.1	1320	1320	2500	560	1100	191	269	2	30.5
NNC4838V	190	240	50	1.5	303	303	750	560	1100	198	232	1.5	5.65
NNCL4838V	190	240	50	1.5	303	303	750	560	1100	198	232	1.5	5.65
NNCF4938V	190	260	69	2	561	561	1290	560	1100	199	251	2	11
NNCL4938V	190	260	69	2	561	561	1290	560	1100	199	251	2	11
NNCF5038V	190	290	136	2.1	1380	1380	2600	530	1000	201	279	2	31.5
NNC4840V	200	250	50	1.5	314	314	800	560	1100	208	242	1.5	5.9
NNCF4840V	200	250	50	1.5	314	314	800	560	1100	208	242	1.5	5.91
NNC4940V	200	280	80	2.1	660	660	1500	530	1000	211	269	2	15.5
NNCF4940V	200	280	80	2.1	660	660	1500	530	1000	211	269	2	15.6
NNCF5040V	200	310	150	2.1	1570	1570	3050	500	950	211	299	2	41
NNC4844V	220	270	50	1.5	330	330	865	530	1000	228	262	1.5	6.55
NNCL4844V	220	270	50	1.5	330	330	865	530	1000	228	262	1.5	6.55
NNCF4844V	220	270	50	1.5	330	330	865	530	1000	228	262	1.5	6.55
NNCF4944V	220	300	80	2.1	682	682	1600	500	950	231	289	2	17
NNC4944V	220	300	80	2.1	682	682	1600	500	950	231	289	2	17
NNCL4944V	220	300	80	2.1	682	682	1600	500	950	231	289	2	17
NNCF5044V	220	340	160	3	1870	1870	3600	450	850	233	327	2.5	52.5
NNC4848V	240	300	60	2	501	501	1290	480	900	249	291	2	10
NNCL4848V	240	300	60	2	501	501	1290	480	900	249	291	2	10
NNCF4848V	240	300	60	2	501	501	1290	480	900	249	291	2	10.1
NNC4948V	240	320	80	2.1	721	721	1760	450	850	251	309	2	18.5
NNCL4948V	240	320	80	2.1	721	721	1760	450	850	251	309	2	18.5
NNCF4948V	240	320	80	2.1	721	721	1760	450	850	251	309	2	18.6
NNCF5048V	240	360	160	3	1980	1980	3900	430	800	253	347	2.5	56
NNC4852V	260	320	60	2	523	523	1400	430	800	269	311	2	11
NNCL4852V	260	320	60	2	523	523	1400	430	800	269	311	2	11
NNCF4852V	260	320	60	2	523	523	1400	430	800	269	311	2	11.1
NNC4952V	260	360	100	2.1	1080	1080	2550	400	750	271	349	2	32
NNCL4952V	260	360	100	2.1	1080	1080	2550	400	750	271	349	2	32
NNCF4952V	260	360	100	2.1	1080	1080	2550	400	750	271	349	2	32.1
NNCF5052V	260	400	190	4	2640	2640	5200	380	700	276	384	3	85.5
NNC4856V	280	350	69	2	682	682	1860	400	750	289	341	2	16
NNCL4856V	280	350	69	2	682	682	1860	400	750	289	341	2	16

NNCF4856V	280	350	69	2	682	682	1860	400	750	289	341	2	16.1
NNC4956V	280	380	100	2.1	1120	1120	2700	380	700	291	369	2	34
NNCL4956V	280	380	100	2.1	1120	1120	2700	380	700	291	369	2	34
NNCF4956V	280	380	100	2.1	1120	1120	2700	380	700	291	369	2	34.1
NNCF5056V	280	420	190	4	2700	2700	5600	360	670	296	404	3	90.5
NNCF4860V	300	380	80	2.1	792	792	2120	380	700	311	369	2	23
NNC4860V	300	380	80	2.1	792	792	2120	380	700	311	369	2	23
NNCL4860V	300	380	80	2.1	792	792	2120	380	700	311	369	2	23
NNCF4960V	300	420	118	3	1540	1540	3600	340	630	313	407	2.5	52
NNC4960V	300	420	118	3	1540	1540	3600	340	630	313	407	2.5	52
NNCL4960V	300	420	118	3	1540	1540	3600	340	630	313	407	2.5	52
NNCF5060V	300	460	218	4	3410	3410	7100	320	600	316	444	3	130
NNCF4864V	320	400	80	2.1	825	825	2280	340	630	331	389	2	24.5
NNC4864V	320	400	80	2.1	825	825	2280	340	630	331	389	2	24.5
NNCL4864V	320	400	80	2.1	825	825	2280	340	630	331	389	2	24.5
NNCF4964V	320	440	118	3	1570	1570	3800	320	600	333	427	2.5	55
NNC4964V	320	440	118	3	1570	1570	3800	320	600	333	427	2.5	55
NNCL4964V	320	440	118	3	1570	1570	3800	320	600	333	427	2.5	55
NNCF5064V	320	480	218	4	3470	3470	7350	300	560	336	464	3	135
NNCF4868V	340	420	80	2.1	842	842	2400	320	600	351	409	2	25.5
NNC4868V	340	420	80	2.1	842	842	2400	320	600	351	409	2	25.5
NNCL4868V	340	420	80	2.1	842	842	2400	320	600	351	409	2	25.5
NNCF4968V	340	460	118	3	1610	1610	4000	300	560	353	447	2.5	59.5
NNC4968V	340	460	118	3	1610	1610	4000	300	560	353	447	2.5	59.5
NNCL4968V	340	460	118	3	1610	1610	4000	300	560	353	447	2.5	59.5
NNCF5068V	340	520	243	5	4180	4180	8800	280	530	360	500	4	185
NNCF4872V	360	440	80	2.1	880	880	2550	300	560	371	429	2	27
NNC4872V	360	440	80	2.1	880	880	2550	300	560	371	429	2	27
NNCL4872V	360	440	80	2.1	880	880	2550	300	560	371	429	2	27
NNCF4972V	360	480	118	3	1680	1680	4150	300	560	373	467	2.5	61
NNC4972V	360	480	118	3	1680	1680	4150	300	560	373	467	2.5	61
NNCL4972V	360	480	118	3	1680	1680	4150	300	560	373	467	2.5	61
NNCF5072V	360	540	243	5	4290	4290	9300	260	500	380	520	4	195
NNCF4876V	380	480	100	2.1	1300	1300	3650	280	530	391	469	2	45.5
NNC4876V	380	480	100	2.1	1300	1300	3650	280	530	391	469	2	45.5
NNCL4876V	380	480	100	2.1	1300	1300	3650	280	530	391	469	2	45.5
NNCF4976V	380	520	140	4	2120	2120	5400	260	500	396	504	3	91.5

NNC4976V	380	520	140	4	2120	2120	5400	260	500	396	504	3	91.5
NNCL4976V	380	520	140	4	2120	2120	5400	260	500	396	504	3	91.5
NNCF5076V	380	560	243	5	4400	4400	9800	240	480	400	540	4	200
NNCF4880V	400	500	100	2.1	1320	1320	3750	260	500	411	489	2	47.5
NNC4880V	400	500	100	2.1	1320	1320	3750	260	500	411	489	2	47.5
NNCL4880V	400	500	100	2.1	1320	1320	3750	260	500	411	489	2	47.5
NNCF4980V	400	540	140	4	2160	2160	5700	240	480	416	524	3	95.5
NNC4980V	400	540	140	4	2160	2160	5700	240	480	416	524	3	95.5
NNCL4980V	400	540	140	4	2160	2160	5700	240	480	416	524	3	95.5
NNCF5080V	400	600	272	5	5500	5500	12200	220	450	420	580	4	270
NNCF4884V	420	520	100	2.1	1340	1340	4000	240	480	431	509	2	49.5
NNC4884V	420	520	100	2.1	1340	1340	4000	240	480	431	509	2	49.5
NNCL4884V	420	520	100	2.1	1340	1340	4000	240	480	431	509	2	49.5
NNCF4984V	420	560	140	4	2200	2200	6000	220	450	436	544	3	99.5
NNC4984V	420	560	140	4	2200	2200	6000	220	450	436	544	3	99.5
NNCL4984V	420	560	140	4	2200	2200	6000	220	450	436	544	3	99.5
NNCF5084V	420	620	272	5	5150	5150	11300			449	588	4	267
NNCF4888V	440	540	100	2.1	1400	1400	4150	220	450	451	529	2	52
NNC4888V	440	540	100	2.1	1400	1400	4150	220	450	451	529	2	52
NNCL4888V	440	540	100	2.1	1400	1400	4150	220	450	451	529	2	52
NNCF4988V	440	600	160	4	2970	2970	7500	200	430	456	584	3	137
NNC4988V	440	600	160	4	2970	2970	7500	200	430	456	584	3	137
NNCL4988V	440	600	160	4	2970	2970	7500	200	430	456	584	3	137
NNCF4892V	460	580	118	3	1540	1540	4500	200	430	473	567	2.5	76
NNC4892V	460	580	118	3	1540	1540	4500	200	430	473	567	2.5	76
NNCL4892V	460	580	118	3	1540	1540	4500	200	430	473	567	2.5	76
NNCF4992V	460	620	160	4	3030	3030	7650	190	400	476	604	3	140
NNC4992V	460	620	160	4	3030	3030	7650	190	400	476	604	3	140
NNCL4992V	460	620	160	4	3030	3030	7650	190	400	476	604	3	140
NNCF4896V	480	600	118	3	1570	1570	4750	190	400	493	587	2.5	78.5
NNC4896V	480	600	118	3	1570	1570	4750	190	400	493	587	2.5	78.5
NNCL4896V	480	600	118	3	1570	1570	4750	190	400	493	587	2.5	78.5
NNCF4996V	480	650	170	5	3300	3300	8300	180	380	500	630	4	165
NNC4996V	480	650	170	5	3300	3300	8300	180	380	500	630	4	165
NNCL4996V	480	650	170	5	3300	3300	8300	180	380	500	630	4	165
NNCF48/500V	500	620	118	3	1610	1610	4900	190	400	513	607	2.5	81.5
NNC48/500V	500	620	118	3	1610	1610	4900	190	400	513	607	2.5	81.5

NNCL48/500V	500	620	118	3	1610	1610	4900	190	400	513	607	2.5	81.5
NNCF49/500V	500	670	170	5	3360	3360	8800	170	360	520	650	4	175
NNC49/500V	500	670	170	5	3360	3360	8800	170	360	520	650	4	175
NNCL49/500V	500	670	170	5	3360	3360	8800	170	360	520	650	4	175
NNCF48/530V	530	650	118	3	1680	1680	5400	170	360	543	637	2.5	85
NNC48/530V	530	650	118	3	1680	1680	5400	170	360	543	637	2.5	86
NNCL48/530V	530	650	118	3	1680	1680	5400	170	360	543	637	2.5	84
NNCF49/530V	530	710	180	5	3910	3910	10200	160	340	550	690	4	200
NNC49/530V	530	710	180	5	3910	3910	10200	160	340	550	690	4	200
NNCL49/530V	530	710	180	5	3910	3910	10200	160	340	550	690	4	200

Thrust Cylindrical Roller Bearings



Bearing NO.		Boundary dimensions(mm)						Basic load ratings(kN)		Minimum load	Design	Weight(kg)
New	Old	d	D	H	$r_{1, 2min}$	d_1	D_1	C_a	C_{0a}	A		Refer
81120	9120	100	135	25	1	135	102	146	585	0.027	1	1
81220	9220	100	150	38	1.1	150	103	224	830	0.055	1	2.2
89320	9549320	100	170	42	1.5	170	103	300	1370	0.15	2	4.2
87420	7549420	100	210	50	3	210	103	540	2750	0.61	3	9
89420	9549420	100	210	67	3	210	103	680	2800	0.63	2	12
81122	9122	110	145	25	1	145	112	153	630	0.031	1	1.1
81222	9222	110	160	38	1.1	160	113	240	915	0.066	1	2.45
89322	9549322	110	190	48	2	190	113	400	1830	0.27	2	6.05

87422	7549422	110	230	54	3	230	113	640	3200	0.82	3	11.5
89422	9549422	110	230	73	3	230	113	800	3350	0.9	2	15.5
81124	9124	120	155	25	1	155	122	160	680	0.036	1	1.15
81224	9224	120	170	39	1.1	170	123	245	965	0.074	1	2.7
89324	9549324	120	210	54	2.1	210	123	500	2280	0.42	2	8.5
87424	7549424	120	250	58	4	250	123	765	4000	1.3	3	15
89424	9549424	120	250	78	4	250	123	930	3900	1.2	2	19.5
81126	9126	130	170	30	1	170	132	183	780	0.048	1	1.7
81226	9226	130	190	45	1.5	187	133	335	1250	0.13	1	4.2
89326	9549326	130	225	58	2.1	225	134	560	2650	0.56	2	10
87426	7549426	130	270	63	4	270	134	830	4400	1.5	3	18.5
89426	9549426	130	270	85	4	270	134	1060	4500	1.6	2	24
81128	9128	140	180	31	1	178	142	193	850	0.057	1	1.95
81228	9228	140	200	46	1.5	197	143	360	1400	0.16	1	4.55
89328	9549328	140	240	60	2.1	240	144	640	3100	0.77	2	12
87428	7549428	140	280	63	4	280	144	880	4800	1.8	3	19.5
89428	9549428	140	280	85	4	280	144	1100	4800	1.8	2	27
81130	9130	150	190	31	1	188	152	200	900	0.064	1	2.05
81230	9230	150	215	50	1.5	212	153	465	1900	0.29	1	5.9
89330	9549330	150	250	60	2.1	250	154	670	3250	0.85	2	12.5
87430	7549430	150	300	67	4	300	154	1000	5400	2.3	3	23.5
89430	9549430	150	300	90	4	300	154	1250	5600	2.5	2	32
81132	9132	160	200	31	1	198	162	204	965	0.074	1	2.7
81232	9232	160	225	51	1.5	222	163	480	2000	0.32	1	6.2
89332	9549332	160	270	67	3	270	164	780	3800	1.2	2	16.5
87432	7549432	160	320	73	5	320	164	1160	6400	3.3	3	29.5
89432	9549432	160	320	95	5	320	164	1430	6400	3.3	2	38
81134	9134	170	215	34	1.1	213	172	260	1180	0.11	1	2.95
81234	9234	170	240	55	1.5	237	173	540	2280	0.42	1	7.7
89334	9549334	170	280	67	3	280	174	800	4000	1.3	2	17.5
87434	7549434	170	340	78	5	340	174	1290	7100	4	3	35.5
89434	9549434	170	340	103	5	340	174	1600	7200	4.1	2	47
81136	9136	180	225	34	1.1	222	183	270	1270	0.13	1	3.05
81236	9236	180	250	56	1.5	247	183	550	2400	0.46	1	8.25

89336	9549336	180	300	73	5	300	184	1020	5000	2	2	22
87436	7549436	180	360	82	5	360	184	1500	8500	4.1	3	42.5
89436	9549436	180	360	109	5	360	186	1900	7200	5.8	1	56.5
81138	9138	190	240	37	1.1	237	193	310	1460	0.17	1	3.85
81238	9238	190	270	62	2	267	194	695	2900	0.67	1	10.5
89338	9549338	190	320	78	4	320	195	1140	5600	2.5	2	27
87438	7549438	190	380	85	5	380	195	1600	9150	6.7	3	48.5
81140	9140	200	250	37	1.1	247	203	310	1500	0.18	1	4
81240	9240	200	280	62	2	277	204	720	3100	0.77	1	12
89340	9549340	200	340	85	4	340	205	1290	6400	3.3	2	32
87440	7549440	200	400	90	5	400	205	1830	10400	8.7	3	57
81144	9144	220	270	37	1.1	267	223	335	1700	0.23	1	4.5
81244	9244	220	300	63	2	297	224	750	3350	0.9	1	13
89344	9549344	220	360	85	4	360	220	1210	5450	4.1	2	36.9
81344	9344	220	360	112	4	360	225	2450	8500	5.8	1	49
89444	9549444	220	420	112	6	420	225	2320	11200	10	2	82
81148	9148	240	300	45	1.5	297	243	475	2450	0.48	1	7.25
81248	9248	240	340	78	2.1	335	244	1100	4900	1.9	1	22
89348	9549348	240	380	85	4	380	240	1290	6100	5.8	2	39.4
81152	9152	260	320	45	1.5	317	263	490	2600	0.54	1	7.85
81252	9252	260	360	79	2.1	355	264	1140	5300	2.2	1	24
89352	9549352	260	420	95	1.1	420	260	1670	7700	8.7	2	55.2
89452	9549452	260	480	132	6	480	265	2850	14300	16	2	114
81156	9156	280	350	53	1.5	347	283	680	3550	1	1	10.5
81256	9256	280	380	80	2	375	284	1160	5500	2.4	1	26
89356	9549356	280	440	95	5	438	282	1800	8650	8.7	2	58.4
81456	9456	280	520	190	6	520	286	3900	14600	17	1	195
89160	9549160	300	380	48	2	377	303	640	3550	1	1	13.5
81160	9160	300	380	62	2	376	304	850	4400	1.5	1	16.5
81260	9260	300	420	95	3	415	304	1530	7200	4.1	1	40.5
89360	9549360	300	480	109	5	480	300	2260	10500	6.7	2	81.7
81164	9164	320	400	63	2	396	324	880	4650	1.7	1	18
81264	9264	320	440	95	3	435	325	1560	7500	4.5	1	42.5
89364	9549364	320	500	109	5	500	325	2200	10400	6.7	2	85.9

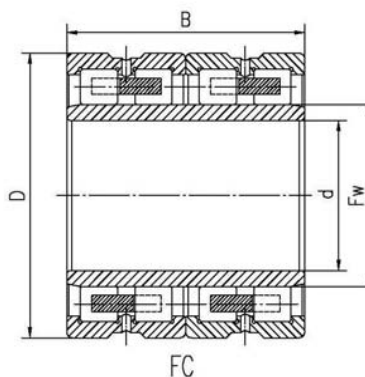
81168	9168	340	420	64	2	416	344	900	4900	1.9	1	19.5
81268	9268	340	460	96	3	455	345	1630	8000	5.1	1	47
89368	9549368	340	540	122	5	540	345	2790	13300	8.7	2	115
89172	9549172	360	440	48	2	437	363	680	4150	1.4	1	15.5
81172	9172	360	440	65	2	436	364	900	4900	1.9	1	19.5
81272	9272	360	500	110	4	495	365	2160	10400	8.7	1	65.5
89372	9549372	360	560	122	5	560	360	2870	14000	8.7	2	120
89176	9549176	380	460	48	2	457	383	710	4400	1.5	1	16.5
81176	9176	380	460	65	2	456	384	930	5300	2.2	1	22
81276	9276	380	520	112	4	515	385	2200	10800	9.3	1	70
89180	9549180	400	480	48	2	477	403	735	4650	1.7	1	17.5
81180	9180	400	480	65	2	476	404	965	5600	2.5	1	23
81280	9280	400	540	112	4	535	405	2240	11200	10	1	73
89480	9549480	400	710	185	7.5	710	405	5700	31000	77	1	350
89184	9549184	420	500	48	2	497	423	765	4900	1.9	1	18
81184	9184	420	500	65	2	495	424	980	5850	2.7	1	24
81284	9284	420	580	130	5	575	425	2850	14000	16	1	95.5
89188	9549188	440	540	60	2.1	537	443	1040	6400	3.3	1	30
81188	9188	440	540	80	2.1	535	444	1430	8000	5.1	1	39.5
81288	9288	440	600	130	5	595	445	2900	14600	17	1	110
89192	9549192	460	560	60	2.1	557	463	1080	6700	3.6	1	31.5
81192	9192	460	560	80	2.1	555	464	1460	8500	5.8	1	41
81292	9292	460	620	130	5	615	465	2700	13400	14	1	118
89196	9549196	480	580	60	2.1	577	483	1100	6950	3.9	1	32.5
81196	9196	480	580	80	2.1	575	484	1460	8650	6	1	43
81296	9296	480	650	135	5	645	485	3350	17000	23	1	128
891/500	95491/500	500	600	60	2.1	597	503	1220	8150	5.3	1	34
811/500	91/500	500	600	80	2.1	595	505	1560	9300	6.9	1	44
812/500	92/500	500	670	135	5	665	505	3400	17600	25	1	133
891/530	95491/530	530	640	67	3	636	534	1370	8800	6.2	1	44
811/530	91/530	530	640	85	3	635	535	1730	10600	9	1	55.5
812/530	92/530	530	710	140	5	705	535	3650	18600	28	1	154
891/560	95491/560	560	670	67	3	666	564	1370	9150	6.7	1	46.5
811/560	91/560	560	670	85	3	665	565	1760	11100	9.7	1	58

812/560	92/560	560	750	150	5	745	565	3800	20000	32	1	187
891/600	95491/600	600	710	67	3	706	604	1430	9650	7.4	1	49.5
811/600	91/600	600	710	85	3	705	605	1800	11600	11	1	62
812/600	92/600	600	800	160	5	795	605	4400	24000	46	1	240
891/630	95491/630	630	750	73	3	746	634	1630	11200	10	1	62
811/630	91/630	630	750	95	3	746	634	2160	13700	15	1	80
812/630	92/630	630	850	175	6	842	638	4800	26000	54	1	295
891/670	95491/670	670	800	78	4	795	675	2000	13400	14	1	75.5
811/670	91/670	670	800	105	4	795	675	2550	16300	21	1	110
812/670	92/670	670	900	180	6	892	678	5700	30500	74	1	335
891/710	95491/710	710	850	85	4	845	715	2200	15000	18	1	95
811/710	91/710	710	850	112	4	845	715	2900	18300	27	1	155
812/710	92/710	710	950	190	6	942	718	5850	32000	82	1	395
891/750	95491/750	750	900	90	4	895	755	2400	16600	22	1	115
811/750	91/750	750	900	120	4	895	755	3250	21200	36	1	155
812/750	92/750	750	1000	195	6	992	758	6550	36000	100	1	445
891/800	95491/800	800	950	90	4	945	805	2500	18000	26	1	120
811/800	91/800	800	950	120	4	945	805	3450	22000	39	1	165
812/800	92/800	800	1060	205	7.5	1050	810	7350	40500	130	1	515
891/850	95491/850	850	1000	90	4	995	955	2600	19000	29	1	130
811/850	91/850	850	1000	120	4	995	855	3450	23200	43	1	170
812/850	92/850	850	1120	212	7.5	1110	860	8150	45500	170	1	580
891/900	95491/900	900	1060	95	5	1055	905	3050	22000	39	1	150
811/900	91/900	900	1060	130	5	1054	906	4000	27000	58	1	210
812/900	92/900	900	1180	220	7.5	1170	910	8500	49000	190	1	665
891/950	95491/950	950	1120	103	5	1115	955	3450	25000	50	1	185
811/950	91/950	950	1120	135	5	1114	956	4400	30000	72	1	250
812/950	92/950	950	1250	236	7.5	1240	960	10000	58500	270	1	805
810/1000	90/1000	1000	1090	70	2.1	1090	1003.5	1830	15300	19	1	68
891/1000	95491/1000	1000	1180	109	5	1175	1005	3900	28500	65	1	220
811/1000	91/1000	1000	1180	140	5	1174	1006	4750	32500	84	1	285
812/1000	92/1000	1000	1320	250	9.5	1308	1012	10200	60000	290	1	965
891/1060	95491/1060	1060	1250	115	5	1245	1065	4150	31000	77	1	260
811/1060	91/1060	1060	1250	150	5	1244	1066	5300	36500	110	1	225

812/1060	92/1060	1060	1400	265	9.5	1388	1972	12000	71000	400	1	1150
891/1120	95491/1120	1120	1320	122	5	1315	1125	4900	36500	110	1	305
811/1120	91/1120	1120	1320	160	5	1314	1126	6000	41500	140	1	410



Four Row Cylindrical Roller Bearings



Bearing NO.		Boundary dimensions(mm)						Basic load ratings(kN)		Cutline	Weight (kg)	Refer foreign model				
New	Old	d	D	B	Fw	r ₁ , 2min	r ₃ , 4min	Cr	Cor		Refer	SKF	FAG	NSK	NTN	KOYO
FC182870		90	140	70	105	1.5	1.1	242	425	2	3.78					
FC182874	672718	90	140	74	105	1.5	1.1	247	485	2	4.2					
FC1828105	672718K	90	140	105	105	1.5	1.1	402	739	2	6					
FC202780		100	135	80	110	1.5	1.1	236	520	2	3					
FC202870	672820K	100	140	70	111	1.5	1.1	238	484	2	3.3					
FC202880	672720K	100	140	80	111	1.5	1.1	298	610	2	3.8					
FC2028104	672820	100	140	104	111	1.5	1.1	400	820	2	5.3			100RV1401		
FC202970	672720	100	145	70	113	1.5	1.1	253	546	2	3.8					20FC1570
FC203074/YA3		100	150	74	115	2	2	260	530	1	4.7				4R2035	
FC2030106		100	150	106	113	1.5	1.1	480	857	2	6.6					
FC223490	672722K	110	170	90	127	2	2	376	760	2	7.5					22FC1790
FC223492		110	170	92	127	2	2	380	762	2	7.7					
FC2234120/YA3	672722	110	170	120	127	2	2	615	1100	1	10			110RV1701		
FC233390/YA3		115	165	90	132	1.1	1.1	398	750	3	6.5					23FC1690
FC243387/YA3		120	165	87	134.5	2	2	365	725	1	6			120RV1601		24FC1787
FC243390/YA3		120	165	90	132	2	2	510	780	1	5.6		537675			
FC243692	672824	120	180	92	137	2	2	425	797	2	8.01				4R2437	
FC2436105/YA3	672724	120	180	105	136	2	2	530	880	1	9.4			120RV1801	4R2438	4CR120
FC2436120		120	180	120	136	2	2	678	1080	2	11.2					
FC2443174/YA3		120	215	174	147	2.1	2.1	1060	1600	1	27.2			120RV2101		
FC2443102		120	215	102	148	2.1	2.1	710	1200	2	16					

FC2640104/YA3		130	200	104	149	2	2	570	950	1	12			130RV2003	4R2628	26FC20104
FC2640110/YA3		130	200	110	150	2	2	608	1040	1	12.7					26FC20110
FC2640125/YA3	672726	130	200	125	149	2	2	700	1190	1	14.5			130RV2001		26FC20125
FC2838119		140	190	119	154	2	2	574	896	2	9.7					28FC19119W
FC2842100		140	210	100	158	2	2	605	985	2	12.2					
FC2842106	672828	140	210	106	158	2	2	615	1048	2	13					
FC2842116/YA3		140	210	116	160	2	2	640	1130	1	13.9			140RV2101	4R2823	28FC21116A
FC2842125	672728	140	210	125	158	2	2	715	1265	2	14.9					
FC2842155		140	210	155	158	2	2	745	1330	2	18					
FC2942155/YA3		145	210	155	166	2	2	735	1560	1	18	314625	511605	145RV2101	4R2906	29FC21155
FC2945156/YA3		145	225	156	169	2	2	835	1820	1	23	313924A	538522	145RV2201	4R2904	313924
FC2946156		145	230	156	169	2	2	886	1827	2	24.7					
FC3042120		150	210	120	166	2	2	687	1080	2	12.5					
FC3042150/YA3		150	210	150	165	2	2	870	1780	1	15.9					30FC21150
FC3044120	672930K	150	220	120	167	2	2	702	1193	2	15.5					
FC3044150/YA3		150	220	150	168	2	2	900	1700	1	19.3			150RV2201	4R3031	30FC22150A
FC3045120	672730K	150	225	120	169	2	2	702	1408	2	16.2					
FC3045136/YA3		150	225	136	169	2	2	820	1460	1	19			150RV2204		
FC3045150/YA3		150	225	150	168.5	2	2	960	1810	1	20.9			150RV2203		
FC3046130/YA3		150	230	130	174	2	2	845	1520	1	19.7			150RV2301	4R3029	30FC23130-1
FC3046150		150	230	150	177	2	2	950	1790	2	22.8					
FC3046156/YA3	672730	150	230	156	174	2	2	965	1810	1	24	313891A	506962	150RV2302	4R3040	313891-1
FC3046168/YA3		150	230	168	178	2	2	845	1950	1	25.8				4R3042	
FC3050150/YA3		150	250	150	177	2.5	2.5	885	1640	1	29.6				4R3039	
FC3244180		160	220	180	177	2.1	2.1	940	2560	2	20.2				4R3224	32FC22180
FC3245120		160	225	120	177	2.1	2.1	639	1340	2	14.9					
FC3246130A/YA3		160	230	130	178	2.1	2.1	781	1320	1	17.7			160RV2301		32FC23130
FC3246130/YA3		160	230	130	180	2.1	2.1	781	1340	1	17	314190	502894A		4R3226	314190
FC3246168/YA3		160	230	168	179	2.1	2.1	1040	2170	1	23.5	315189A	510150		4R3232	
FC3246168A/YA3	672832	160	230	168	180	2.1	2.1	1040	21700	1	23.5			160RV2302	4R3229	32FC23170A
FC3246180		160	230	180	178	2.1	2.1	1080	2270	1	24.6			160RV2303		32FC23180
FC3248120/YA3		160	240	120	183	2.1	2.1	745	1320	1	18.6			160RV2401		32FC24120W
FC3248124	672732K	160	240	124	183	2.1	2.1	750	1360	2	19.6					
FC3248145/YA3		160	240	145	180	2.1	2.1	920	1600	1	23			160RV2403		
FC3248168	672732	160	240	168	183	2.1	2.1	1042	2310	2	26.7					
FC3248170/YA3		160	240	170	183	2.1	2.1	1080	2050	1	27.8			160RV2402	4R3225	32FC24170
FCDP3248195/YA3		160	240	195	182	3	3	1340	2600	9	33		514057			
FC3446120/YA3		170	230	120	187	2.1	2.1	750	1580	1	14.3			170RV2301	4R3426	34FC23120
FC3446130		170	230	130	188.5	2.1	2.1	780	1680	1	15.6	313673	508370			
FC3446160/YA3		170	230	160	188.5	2.1	2.1	940	2320	1	18.9		567622			
FC3446180		170	230	180	186	2.1	2.1	1040	2690	2	24.5					
FC3448130/YA3		170	240	130	190	2.1	2.1	920	1830	1	18.7	BC4B635122				
FC3448156		170	240	156	189	2.1	2.1	983	2070	2	22.2				4R3429	34FC24156
FC3448160/YA3		170	240	160	190	2.1	2.1	1000	2130	1	23			170RV2402	4R3423	
FC3450150		170	250	150	192	2.1	2.1	980	2016	2	25					
FC3450168/YA3		170	250	168	192	2.1	2.1	1020	2320	1	28			170RV2501		34FC25168
FC3450170/YA3	672734	170	250	170	192	2.1	2.1	1180	2320	1	28.6			170RV2502		34FC25170
FC3451180/YA3		170	255	180	193	2.1	2.1	1300	2500	1	30.5			170RV2503	4R3425	
FC3452120	672734K	170	260	120	195	2.1	2.1	860	1752	2	23					
FC3452150/YA3		170	260	150	195	2.1	2.1	1030	1840	1	28.8			170RV2602		34FC26150
FC3452170		170	260	170	195	2.1	2.1	1035	2096	2	32.7					
FC3452192	672734K1	170	260	192	195	2.1	2.1	1090	2240	2	36.9					

FC3452225		170	260	225	196	2.1	2.1	1650	3360	2	43.6	313587B	505470		4R3431	
FCDP3452225/YA6		170	260	225	193	4	4	2160	4300	10	45		535331			
FC3650120		180	250	120	200	2.1	2.1	610	1578	2	18					
FC3650130		180	250	130	200	2.1	2.1	716	1922	2	19.5					
FC3650156A		180	250	156	198	2.1	2.1	880	2230	1	23.4					
FC3650156/YA3		180	250	156	200	2.1	2.1	880	2230	1	23.4			180RV2501	4R3625	36FC25156A
FC3650168/YA3		180	250	168	202	2.1	2.1	885	2470	1	25.6				4R3639	
FC3652120	672836	180	260	120	202	2.1	2.1	735	1577	2	21					
FC3652124		180	260	124	202	2.1	2.1	735	1577	2	21.7					
FC3652156		180	260	156	198	2.1	2.1	835	2200	2	27.3					
FC3652160		180	260	160	202	2.1	2.1	880	2230	2	28.4					
FC3652168/YA3	672736	180	260	168	202	2.1	2.1	990	2300	1	29.5	313812	507536	180RV2601	4R3628	313812W
FC3653180A		180	265	180	203	2.1	2.1	1180	2395	1	33.7			180RV2603		36FC27180
FC3653180/YA3		180	265	180	204	2.1	2.1	1040	2649	1	33.8			180RV2602	4R3618	
FC3656180/YA3		180	280	180	206	2.1	2.1	1287	2995	1	41		524372			
FC3656180A		180	280	180	207	2.1	2.1	1287	2995	2	41.4					
FC3656200/YA3		180	280	200	205	2.1	2.1	1620	2990	1	45.7					36FC28200
FC3852168A	672838	190	260	168	208	2.1	2.1	1140	2520	2	24.9					
FC3852168/YA3		190	260	168	212	2.1	2.1	1140	2600	1	27	313651	507735	190RV2601	4R3820	38FC26168-1
FC3853124		190	265	124	213	2.1	2.1	819	1921	2	21					
FC3854166		190	270	166	212	2.1	2.1	1034	2460	2	30.4					
FC3854168	672738K	190	270	168	212	2.1	2.1	1034	2460	2	30.8					
FC3854170/YA3		190	270	170	213	2.1	2.1	1240	2910	1	31.7			190RV2702	4R3818	38FC27170A
FC3854200/YA3	672738	190	270	200	212	2.1	2.1	1510	3310	1	37.5	314199B	508657	190RV2701	4R3821	314199
FC3856200/YA3		190	280	200	214	2.1	2.1	1720	3370	1	42	314049A	510199	190RV2801	4R3823	
FC4050200		200	250	200	215	2	2	886	2360	2	23.2			200RV2521		
FC4053180/YA3		200	265	180	217	2	2	1200	2790	1	26.9					40FC27180
FC4054120		200	270	120	222	2.1	2.1	617	1630	2	19.6					
FC4054170/YA3		200	270	170	222	2.1	2.1	1170	2580	1	28.5	314553	522742		4R4039	314553
FC4056152		200	280	152	222	2.1	2.1	1000	2320	2	29.5				4R4054	40FC28152BW
FC4056170/YA3		200	280	170	222	2.1	2.1	1120	2300	1	33.5	314385	507344		4R4048	40FC28170
FC4056170A		200	280	170	223	2.1	2.1	1120	2300	1	33.2		549864	200RV2804		
FC4056188	672740K	200	280	188	222	2.1	2.1	1210	2720	2	36					40FC28188
FC4056190/YA3		200	280	190	223	2.1	2.1	1350	3050	1	37.1			200RV2803	4R4026	40FC28190A
FC4056200/YA3		200	280	200	222	2.1	2.1	1410	3200	1	39	313893	508726	200RV2802	4R4037	313893-1
FC4056200A/YA3		200	280	200	224	2.1	2.1	1410	3200	1	39.4			200RV2801	4R4027	40FC28200
FC4058130		200	290	130	226	2.1	2.1	945	1916	2	38.5					
FC4058192/YA3	672740	200	290	192	226	2.1	2.1	1410	2980	1	42.8	313811	512580	200RV2901	4R4041	313811
FC4058202		200	290	202	226	2.1	2.1	1540	3110	2	43.4					
FC4062130		200	310	130	229	2.1	2.1	1113	2254	2	36.3					
FC4062200/YA3		200	310	200	229	2.1	2.1	1670	3625	1	55.8		524373			
FCD4062230/YA3		200	310	230	229	2.1	2.1	1840	3500	5	64	313639/VJ202	503901	200RV3102		
FCDP4062265/YA3		200	310	265	227	3	3	2700	4100	9	73		514958			40FC31265W
FC4064216/YA3		200	320	216	231	2.1	2.1	2120	3900	1	69.9			200RV3231	4R4028	
FC4258192		210	290	192	234	2.1	2.1	1400	3240	2	38.2					
FC4258192A/YA3		210	290	192	236	2.1	2.1	1400	3300	1	41	313646	507628	210RV2901	4R4206	42FC29192
FC4260170		210	300	170	234	2.1	2.1	1320	2900	2	38.8					
FC4260210	672742	210	300	210	234	2.1	2.1	1510	3700	2	47.9					42FC30210
FC4458192/YA3		220	290	192	239	2.1	2.1	1190	3350	1	33.8				4R4413	
FC4460160/YA3		220	300	160	245	2.1	2.1	1050	2600	1	32.8				4R4419	
FC4460190		220	300	190	240	2.1	2.1	1220	3320	2	39.3					
FC4460192	672944	220	300	192	242	2.1	2.1	1220	3320	2	39.7					

FCD4460200		220	300	200	240	2.1	2.1	1800	3900	2	41						
FC4462190		220	310	190	246	2.1	2.1	1320	3450	2	45						
FC4462192/YA3	672744	220	310	192	246	2.1	2.1	1540	3450	1	46	313839	507333			4R4426	313837A
FC4462192A/YA3		220	310	192	247	2.1	2.1	1540	3450	1	46			220RV3101		4R4410	313837-1
FCD4462204/YA3		220	310	204	247	2.1	2.1	1570	3750	1	49.8					4R4425	
FCD4462215/YA3		220	310	215	242	2.1	2.1	1650	3850	1	51.5					4R4420	
FCD4462225/YA3		220	310	225	244	2.1	2.1	1740	3900	1	54.5	313894B	514461			4R4449	4CR220W
FCD4462225A/YA3		220	310	225	245	2.1	2.1	1740	3900	1	54.9		506869	220RV3102		4R4416	44FC31225
FCD4462265		220	310	265	245	2.1	2.1	1970	4700	2	63.5						
FC4464160/YA3		220	320	160	245	2.1	2.1	1200	2600	1	46.5					4R4428	
FC4464192	672744K	220	320	192	246	2.1	2.1	1600	3450	2	51.5						
FCD4464210/YA3		220	320	210	246	2.1	2.1	1800	3700	1	57		509216	220RV3203		4R4444	44FC32210
FCD4464210A/YA3		220	320	210	248	2.1	2.1	1790	3650	1	56			220RV3201		4R4429	44FC32210-1
FCD4466230/YA3		220	330	230	249	2.1	2.1	2050	4000	5	68.5	314889/VJ202	541452				
FC4468180/YA3		220	340	180	256	3	3	1500	2750	1	59						44FC34180A
FC4468192	672844	220	340	192	246	2.1	2.1	1820	3600	2	64.2						
FCD4468210		220	340	210	250	2.1	2.1	1910	3850	4	70.5						
FCDP4468290		220	340	290	250	2.1	2.1	2980	5010	9	96.5		525147				
FCD4469210		220	345	210	250	2.1	2.1	1910	3850	4	73.8						
FC4666170		230	330	170	260	2.1	2.1	1150	2970	2	47.4						
FC4666206A/YA3		230	330	206	258	2.1	2.1	1640	3720	1	58.6					4R4614	
FC4666206/YA3	672746	230	330	206	260	2.1	2.1	1620	3690	1	58	313824	508727	230RV3301		4R4610	313824
FC4668260/YA3		230	340	260	261	2.1	2.1	2100	4590	1	81			230RV3401		4R4611	46FC34260
FCDP4673250		230	365	250	266	2.1	2.1	2300	4890	9	100	313581A	529113	230RV3601			313581AW
FC4866180/YA4		240	330	180	265	2.1	2.1	1460	3490	1	49.5	635194	504547				
FC4866220	672748	240	330	220	264	2.1	2.1	1540	3850	1	56.4					4R4819	48FC33220
FC4866220A		240	330	220	270	2.1	2.1	1500	3700	2	58	313921	508368	240RV3301		4R4811	312943/1YD
FC4868192	672748K	240	340	192	268	2.1	2.1	1474	3230	2	55.4						
FC4868220/YA3		240	340	220	268	3	3	1670	3530	1	71		513703	240RV3403			48FC34220
FC4870220		240	350	220	270	3	3	1780	3870	2	71						
FC4872218/YA3		240	360	218	270	3	3	2130	4060	1	76.8						48FC36218
FC4872220		240	360	220	272	3	3	1920	3920	1	78.8			240RV3601			
FC4872220A		240	360	220	274	3	3	1860	3900	2	79.6						
FCDP4872290/YA3		240	360	290	270	3	3	2850	5670	9	100		514959				48FC35290W
FC5068170		250	340	170	274	3	3	1390	3500	2	45						
FC5068220		250	340	220	274	3	3	1330	3120	2	52.8						
FCD5068230		250	340	230	270	3	3	1700	4350	4	65						
FC5070220A		250	350	220	274	3	3	1670	3640	4	58						
FC5070220/YA3	672750	250	350	220	278	3	3	1730	3990	1	65			250RV3501		4R5008	50FC35220
FCD5070230		250	350	230	278	3	3	1900	4350	4	68.7						
FC5072220	672750K	250	360	220	282	3	3	1810	4240	4	73						
FC5272192		260	360	192	288	3	3	1610	3660	2	60						52FC36192W
FC5272200/YA3		260	360	200	287	3	3	1880	4110	1	62						52FC36200
FCD5272204/YA3		260	360	204	287	3	3	1690	3850	5	64.5	314997/VJ202					
FC5272230/YA3		260	360	230	292	3	3	1980	4200	1	73.5	BC4B320956	533880				
FCD5272260/YA3		260	360	260	287	3	3	2300	5320	5	80					4R5231	52FC36260
FC5274192		260	370	192	291	3	3	1670	4010	2	66						
FC5274200	672752K	260	370	200	292	3	3	1770	4120	2	68.9						
FC5274220/YA3	672752	260	370	220	292	3	3	1950	4140	1	76.5	313823	507336	260RV3701		4R5208	313823
FC5274230		260	370	230	292	3	3	2020	4450	2	79.3						
FC5276220		260	380	220	292	3	3	2100	4900	2	85						
FC5276280/YA3		260	380	280	294	3	3	2420	5940	1	108			260RV3801		4R5213	52FC38280

FCD5276280A	672852	260	380	280	295	3	3	2420	5940	4	108					
FCDP5280290		260	400	290	296	3	3	3520	7100	9	135	313427	518214	260RV4001	4R5218	
FC5280300/YA3		260	400	300	295	5	5	3900	7600	1	145		526803			
FCDP5280335/YA3		260	400	335	294	3	3	3750	7340	6	149		521065			52FC40335W
FC5374234/YA3		265	370	234	300	3	3	2240	5400	1	80	313922	517423			53FC37234
FC5476230/YA3	672754	270	380	230	298	2.1	2.1	2000	5050	1	81.8			270RV3801		54FC38230
FCD5476275		270	380	275	298	3	3	2700	6300	4	97.8					
FC5476280/YA3		270	380	280	297	2.5	2.5	2260	5750	6	101				4R5407	
FC5478220		270	390	220	306	3	3	1800	4800	4	86.7					
FC5478220A		270	390	220	302	3	3	1800	4800	4	85.8					54FC39220
FCD5478240		270	390	240	298	3	3	2236	5950	4	94					
FC5480220		270	400	220	305	3	3	2410	6100	4	95.5					
FC5670208/YA3		280	350	208	298	2.5	2.5	1290	3950	1	46.4				4R5614	
FC5675200		280	375	200	307	3	3	1500	4310	2	63.5					
FC5676170/YA3		280	380	170	306	3	3	1410	3590	3	55					56FC38170W
FC5676192A		280	380	192	308	3	3	1560	4580	2	64.8					
FC5676192		280	380	192	310	3	3	1560	4580	2	64.8					
FCDP5676290/YA3		280	380	290	308.53	3	3	2750	6950	9	75.2	BC4-0001				
FC5678220/YA3	672756	280	390	220	312	3	3	2020	4400	1	81.54	313822	507339	280RV3901	4R5611	313822
FC5678240/YA3		280	390	240	312	3	3	2240	5230	1	89.4			280RV3902		
FCDP5678275/YA3		280	390	275	308	3	3	2720	6130	9	105	314719C	527104	280RV3903		
FC5678275/YA3		280	390	275	312	3	3	2260	6940	1	105		513729A		4R5612	56FC38275
FCD5680285/YA3		280	400	285	316	3	3	2850	6600	5	121	314070/VJ202	513342	280RV4021		
FCD5682300/YA3		280	410	300	313	4	4	3170	6860	5	134	314897/VJ202	510350			
FCDP5682300/YA6		280	410	300	314	4	4	3730	8400	10	137					56FC41300
FCD5684280		280	420	280	318	4	4	2945	7212	4	137					
FC5684290/YA3		280	420	290	315	5	5	3900	9780	1	140		517797			
FCDP5684300/YA3		280	420	300	319	4	4	3070	6470	9	151	313487	507356			
FC5684280A/YA3		280	420	280	323	4	4	2945	7212	1	137				4R5605	
FCD5878190/YA3		290	390	190	316	4	4	1940	4320	5	67	635195				
FC5878234/YA3		290	390	234	320	4	4	2150	5320	1	82.2			290RV3901		58FC39234
FC5880180/YA3		290	400	180	320	4	4	2070	5120	1	67.5					58FC40180W
FC5882240/YA3	672758	290	410	240	320	4	4	2440	5180	1	101			290RV4101	4R5806	58FC41240
FC5884300/YA3		290	420	300	327	4	4	3130	7130	1	141			290RV4201	4R5805	58FC42300
FC5888310/YA3		290	440	310	328	4	4	4130	9210	1	171		517796			
FCD6080300/YA3		300	400	300	328	4	4	2590	6560	5	115			300RV4021	4R6014	60FC40300
FCD6084180		300	420	180	332	4	4	2020	6440	4	92.4					
FC6084218/YA3	672760K	300	420	218	332	4	4	2014	4950	3	94					60FC42218
FC6084240/YA3	672760	300	420	240	332	4	4	2540	5460	3	111			300RV4201	4R6027	60FC42240
FC6084240A/YA3		300	420	240	334	4	4	2540	5460	1	114				4R6012	
FC6084240A/YA3		300	420	240	336	4	4	2010	5450	1	105				4R6023	
FCDP6084300/YA3		300	420	300	332	4	4	3180	7200	9	131	314484D	524289B	300RV4221	4R6020	4CR300
FC6084300/YA3		300	420	300	334	4	4	2900	7850	1	130				4R6015	
FC6086240/YA3		300	430	240	338	4	4	2720	5950	1	115					60FC43240
FC6092270/YA3		300	460	270	344	4	4	2670	5800	1	162				4R6019	
FCDP6092350/YA3		300	460	350	341	4	4	5500	9700	10	251		517795			
FC6284300/YA3		310	420	300	338	4	4	3130	7650	1	121			310RV4201		62FC42300
FC6286240/YA3		310	430	240	344.5	4	4	2480	5650	1	109			310RV4301	4R6202	62FC43240
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FCDP6488340/YA6		320	440	340	350	4	4	5100	13200	10	170		532220			
FC6490240/YA3		320	450	240	358	4	4	2620	5840	1	121			320RV4501	4R6411	4CR320
FC6490240A/YA3		320	450	240	355	4	4	2600	5750	1	116			320RV4502		64FC45240

FCD6492300		320	460	300	357	4	4	2940	8430	4	164					
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FCDP64104475/YA6		320	520	475	367	6	3	9800	21000	10	435		522140			
FC6686230/YA3		330	430	230	358	4	4	2220	5560	1	89.6			330RV4301		
FC6688200		330	440	200	360	4	4	2050	4510	2	85			330RV4401	4R6603	66FC44200W
FCDP6692340/YA3		330	460	340	365	4	4	3400	8200	9	175	313445C	543447		4R6605	
FCDP6692340A/YA6		330	460	340	364	4	4	3400	8200	10	175					4CR330
FC6890250/YA3		340	450	250	371	4	4	2580	6400	1	111			340RV4501		
FC6890250A		340	450	250	368	4	4	2580	6410	2	111			340RV4502		68FC45250BW
FCD6892260		340	460	260	370	4	4	2800	7300	4	125					
FC6896280		340	480	280	374	4	4	3120	8120	2	160					
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FC6898300/YA3		340	490	300	377	4	4	3350	8300	1	187				4R6804	
FC6898300A/YA3		340	490	300	380	4	4	3500	7600	1	187					68FC49300
FCDP68100370/YA6		340	500	370	385	4	4	4800	10600	10	261	8C4B322261/HB	517749			
FCDP68120380/YA6		340	560	380	396	4	4	5800	11880	10	350	313404A	545171			
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FCD70100380		350	500	380	389	5	5	4200	10080	4	240	314563/VJ202	532381.N12BA			
FCDP70100410/YA6		350	500	410	388	5	5	4960	12300	10	285	8C4B322777/HB	532001			
FCDP70100460/YA3		350	500	460	388	5	5	6570	16500	9						70FC50460
FCD70104300		350	520	300	401	5	5	4070	7950	4	220	C2B319878/VJ202				
FCD70104300/HCYA2		350	520	300	401	5	5	4290	9000	8	220	8C4B326909/HA3				
FC7296290/YA3		360	480	290	392	4	4	3470	8510	1	145					72FC48290
FC7296290A/YA3		360	480	290	394	4	4	3080	7470	1	149			360RV4801		
FCD72100250		360	500	250	394	4	4	3040	6620	4	146	C2B320075A/VJ202				
FC72102370/YA3		360	510	370	400	4	4	4250	9600	1	241			360RV5101	4R7212	72FC51370
FCDP72102380/YA3		360	510	380	399	4	4	5200	12300	9	246					72FC51380
FC72102400		360	510	400	397	4	4	4500	11500	2	260				4R7203	
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FC7496230/YA3		370	480	230	400	4	4	2100	6250	1	106				4R7405	
FC7496250		370	480	250	385	3	3	2820	7320	2	115					74FC48250W
FC7496250/YA3		370	480	250	401	4	4	2690	6980	1	120			370RV4801	4R7408	
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FCD74104400/YA3		370	520	400	413	4	4	4740	11900	6	268					74FC52400W
FC74108400/YA3		370	540	400	415	4	4	4990	11400	1	320			370RV5401		74FC54400A
FC76100290/YA3		380	500	290	414	4	4	3010	7920	1	153			380RV5001		
FC76104280/YA3		380	520	280	417	4	4	3280	7600	1	174			380RV5202	4R7605	76FC52280
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FC76104290/YA3		380	520	290	418	4	4	3380	7970	1	181		576360	380RV5201		76FC52290
FCDP76104300/YA3		380	520	300	416	4	4	3550	9600	9	210				4R7607	
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FCDP76108340/YA6		380	540	340	422	4	4	4600	10300	10	256					76FC54340W
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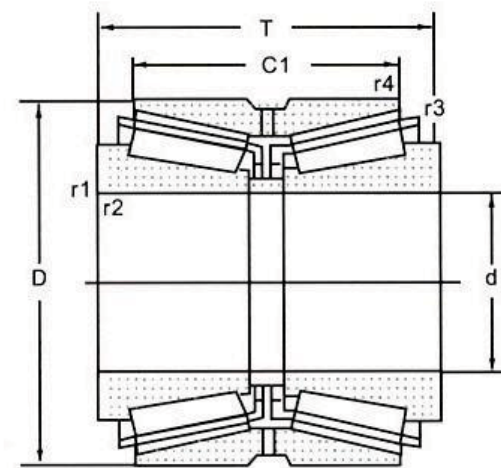
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FC80104250		400	520	250	432	5	5	3000	7700	2	140			400RV5202		80FC52250W
FCDP80108380/YA6		400	540	380	436	5	5	4320	9780	10	273		533426			
FCDP80110300/YA6		400	550	300	438	5	5	4230	9880	10	214					80FC55300
FC80110300/YA3		400	550	300	441	5	5	3940	9260	1	216			400RV5501		
FCDP80112360/YA6		400	560	360	441	5	5	5570	13400	10	277					80FC56360
FCDP80112400/YA6		400	560	400	446	5	5	5370	12920	10	322			400RV5612	4R8007	80FC56400W
FCDP80112410/YA6		400	560	410	445	5	5	5640	13800	10	330	313015DC	513769A	400RV5613	4R8010	80FC56410
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FCD80108440/YA3		400	590	440	450	5	5	6630	14940	6	415	315802/VJ202				
FCDP82112400/YA6		410	560	400	450	5	5	5800	14310	10	321	316689	561005			
FCDP82114450/YA6		410	570	450	452	5	5	6930	17900	10	346					82FC57450W
FCDP82120440/YA6		410	600	440	460	5	5	6880	15750	10	440	313877B	517436	410RV6011		
FCD84112260/YA3		420	580	260	468	5	5	3740	9650	5	210	2B320074/VAJ202				
FC84112280/YA3		420	560	280	457	5	5	3800	9250	1	196			420RV5601	4R8403	84FC56280
FCD84112400		420	560	400	458	5	5	4950	13000	4	278			420RV5602		84FC56400
FC84116230/YA3		420	580	230	466	4	4	2430	6250	1	181				4R8408	
FCD84116320/YA3		420	580	320	463	5	5	4680	10800	6	250	313555B/VJ202	533053			
FCDP84120440/YA3		420	600	440	470	5	5	7100	17200	9	433	313513	545467	420RV6011	4R8407	
FCD84124300		420	620	300	473	5	5	520	15800	4	416					
FCD84124400/YA6		420	620	400	473	5	5	6930	15600	7	430	314391/VJ202				
FC84124400		420	620	400	478	5	5	500	13400	1	410				4R8401	
FCDP86114340/YA3		430	570	340	465	5	5	6000	16800	10	260		526415			
FCD86118420/YA3		430	591	420	476	5	5	5200	13400	5	355			430RV5921	4R8605	
FC88118270/YA3		440	590	270	482	5	5	3620	8460	3	207					88FC59270W
FCDP88124450/YA6		440	620	450	487	5	5	7350	17800	10	450	314554B	517454A	440RV6213	4R8801	88FC62450AW
FCD88124450/YA3		440	620	450	490	5	5	7450	19000	5	450			440RV6221		
FCDP88128420/YA3		440	640	420	492	5	5	7820	18400	9	470					88FC64420
FCDP88130355/YA6		440	650	355	494	5	5	6700	14000	10	420	316899A				
FCDP90108435/YA6		450	590	435	486	5	5	5150	14800	10	345		542648			
FCD90126450/YA3		450	630	450	500	5	5	6950	17500	5	440			450RV6321		90FC63450A
FCDP92122322/YA6		460	610	322	499	5	5	410	14600	10	290		526420			
FCDP92124320/YA3		460	620	320	500	5	5	4800	16200	9	296		526026			
FC92124400/YA3		460	620	400	506	5	5	5500	14700	1	352			460RV6201		
FCDP92124400/YA6		460	620	400	502	5	5	6400	16600	10	368			460RV6211	4R9223	92FC62400BW
FCDP92124460/YA6		460	620	460	502	5	5	7100	19100	10	427			460RV6212		
FCDP92130355/YA6		460	650	355	509.5	5	5	6240	14100	10	386	313031A				
FCDP92130424/YA6		460	650	424	510	5	5	7510	17620	10	458	315196A	513584A			
FCDP92130470/YA6		460	650	470	509	5	5	8680	20900	10	523	314560	518846	460RV6511	4R9216	92FC65470W
FCDP92132475/YA6		460	660	475	508	5	5	11000	35000	10	585		517693			
FCD92134500/YA3		460	670	500	522	5	5	8900	22700	5	601			460RV6721		
FCDP92140540/YA3		460	700	540	519	5	5	12000	37500	9	786		529368			
FC96120236/YA3		480	600	236	510	3	3	2620	7850	1	155				4R9610	

FCDP96130340/YA3		480	650	340	522	5	5	6550	18400	9	320		525884			
FCDP96130420/YA6		480	650	420	522	5	5	9120	23700	10	440		525912			
FCDP96130450/YA6		480	650	450	525	5	5	7680	21000	11	440	316690B	547659			
FCDP96130460/YA3		480	650	460	526	5	5	7730	20800	9	443					96FC65460
FCDP96136420/YA6		480	680	420	528	5	5	7840	19100	10	515	319320	533522			
FCDP96138460/YA6		480	680	460	532	5	5	8620	21300	10	545					96FC68460
FCDP96136500/YA6		480	680	500	528	5	5	8570	23000	10	605	316624				
FCDP96136500A/YA6		480	680	500	532	5	5	8790	23700	10	585	313516D	514445B		4R9604	
FCDP96136500A1/YA6		480	680	500	534	5	5	9000	23100	10	620			480RV6801		96FC68500
FCDP96140500/YA6		480	700	400	538	5	5	7650	17400	10	538			480RV7031		
FCDP96136500/YA6		480	700	500	534	5	5	9200	34200	10	675		546125			
FCDP96140530/YA3		480	700	530	536	5	5	8300	31500	9	720		523399			
FCD100130260/YA3		500	650	260	542	6	6	4020	9750	5	225	319254/VJ202				
FCDP100134450/YA6		500	670	450	540	6	6	8300	22300	11	464	316083A		500RV6712E		
FCDP100134450A/YA6		500	670	450	556	6	6	4500	11400	10	458		533023			
FCDP100136450/YA6		500	680	450	550	6	6	5775	21300	10	500	BC4B316515	546335			
FCDP100138470/YA6		500	690	470	547	6	6	7650	22500	10	590				4R10016	
FCDP100138510/YA6		500	690	510	550	6	6	8850	23900	10	580			500RV6913		
FCDP100138510A/YA6		500	690	510	552	6	6	9000	24600	10	580			500RV6921	4R10006	
FCDP100140500/YA6		500	700	500	554	6	6	11600	38000	10	615		517692			
FCDP100140515/YA6		500	700	515	554	6	6	9100	23800	10	622			500RV7021	4R10011	
FCDP100142480/YA3		500	710	480	558	6	6	8500	21200	9	632	316968A	530488	500RV7111		
FCDP100144400		500	720	400	558	6	6	7920	17600	9	530	BC4B322066				
FCDP100144530/YA6		500	720	530	560	6	6	9950	25300	10	782			500RV7211		
FCDP100144530A/YA6		500	720	530	568	6	6	10800	28500	10	780	314441B	513378A		4R10015	
FCDP102134320/YA6		510	670	320	554	6	6	4950	12700	1	298			510RV6701		10FC67320
FCDP102136500/YA6		510	680	500	560	6	6	8970	24700	10	522	BC4B319411	567725A			
FCDP102140540/YA6		510	700	540	558	6	6	8300	25000	10	690				4R10202	
FCDP102146520/YA6		510	730	520	565	6	6	13400	42000	10	745		541646			
FCD102146520A/YA3		510	730	520	569	6	6	9520	22000	6	750	BC4-8009/HB1				
FCDP102152550/YA6		510	760	550	570	6	6	12100	26500	10	950	BC4-8007/HB1	517690			
FCDP104136450/YA6		520	680	450	562	5	5	7810	22300	10	435					10FC68450W
FCDP104140540/YA6		520	700	540	564	6	6	8200	25500	10	658				4R10403	
FCDP104144550/YA6		520	720	550	566	6	6	9400	27700	10	715				4R10406	
FCDP104147535/YA6		520	735	535	574.5	6	6	10400	26300	10	750			520RV7331	4R10402	104FC74535
FCDP104150530/YA6		520	750	530	576	6	6	13700	45000	10	785		541647			
FCDP106140540/YA6		530	700	540	574	6	6	8150	26500	10	626				4R10603	
FCDP106152520/YA6		530	760	520	587	6	6	11700	28500	10	798	314886A	531597			
FCDP106152520A/YA6		530	760	520	590	6	6	9150	26700	10	800				4R10601	
FCD106156500/YA3		530	780	500	591	6	6	9350	20200	6	805	315040/VJ202				
FCDP106156570/YA6		530	780	570	595	6	6	11800	29200	10	960			530RV7813	4R10606	106FC78570
FCDP106156570A/YA6		530	780	570	601	6	6	11800	29200	10	960	314517A	517689A	530RV7811	4R10602	
FCDP106174670		530	870	670	615	6	6	21200	67000	10	1680		543481			
FCDP109162580/YA6		545	810	580	614	6	6	13500	33400	10	1090					109FC81580
FCDP110148510/YA6		550	740	510	600	6	6	9150	25700	10	648	316691B	532843			110FC74510
FCDP110148510A/YA6		550	740	510	602	6	6	9150	25700	10	648			550RV7411A		
FCD110160520/YA6		550	800	520	612	6	6	11700	26500	10	895	316115/VJ202				
FCDP110160520A/YA6		550	800	520	622	6	6	9450	27000	10	550				4R11001	
FC110160560/YA3		550	800	560	610	6	6	12100	28000	4	930	BC4B322719/HB	517688			
FC112136360/YA3		560	680	360	590	6	6	4650	16500	1	265				4R11202	
FCDP112160600/YA6		560	800	600	620	6	6	12400	31500	10	1020			560RV8011		112FC80600
FCDP112164600A/YA6		560	820	600	625	6	6	14200	34000	10	1080	BC4B322930/HA	517687A			

FCDP112164630/YA6		560	820	630	625	6	6	14000	452000	10	1240		526708			112FC82630
FCDP112184710/YA6		560	920	710	652.5	7.5	4	19640	45400	10	2010	313189A				
FCDP114150530/YA6	6727/570	570	750	530	622	6	6	7000	26600	10	625					
FCDP114160514/YA6		570	800	514	626	6	6	10200	29200	10	849				4R11404	
FCDP114163594/YA6		570	815	594	628	6	6	13700	33500	10	964			570RV8111	4R11402	114FC81594
FCDP114166600/YA6		570	830	600	635	6	6	17600	67800	10	1210		517686			
FCDP116170640/YA6		580	850	640	648	6	6	18000	63400	10	1275		517685			
FCDP118164590/YA6		590	820	590	649	6	6	13100	35100	10	990					118FC82590
FCDP120164550/YA6		600	820	550	660	6	6	9400	30400	10	900		518780			
FCDP120164575/YA6		600	820	575	660	6	6	12900	35500	10	936	315175A	528518	600RV8212E	4R12006	120FC82575
FCDP120164575G/YA6		600	820	575	660	6	6	12900	35500	11	936	315175C				
FCDP120174540/YA6		600	870	540	672	6	6	12080	38500	10	1150	315068A	533259		4R12002	
FCDP120174640/YA6		600	870	640	672	7.5	7.5	15700	40000	10	1320	315513	517684A	600RV8713	4R12001	120FC87640
FCDP120174640A/YA6		600	870	640	682	7.5	7.5	15700	40000	10	1320	314317A		600RV8711		
FCDP120184680/YA6		600	920	680	674	6	6	23000	67000	10	1810		526235			
FCDP122164430/YA6		610	820	430	665	6	6	9350	23600	10	656	315257A				
FCDP122170570/YA6		610	850	570	670	6	6	12600	33000	10	1040			610RV8511		122FC85570
FCDP122174660/YA6		610	870	660	680	6	6	15200	41000	10	1370			610RV8711	4R12202	122FC87660
FCDP126160360/YA6		630	800	360	675	5	5	6850	19500	10	440					126FC80360
FCDP126180670/YA6		630	900	670	698	6	6	20800	63500	10	1525		517683			
FCDP126184515		630	920	515	700	7.5	7.5	10700	17160	10	1182					
FCDP130180650/YA6		650	900	650	704	7.5	7.5	14800	41500	10	1260	BC4-8002/HA6				
FCDP130184670/YA6		650	920	670	723	7.5	7.5	16200	44000	10	1470	313007C	515194A	650RV9212	4R13005	130FC92670
FCDP130184680/YA6		650	920	680	723	7.5	7.5	14800	47000	10	1510				4R13010	
FCDP130184690/YA6		650	920	690	723	7.5	7.5	16600	45000	10	1520			650RV9211	4R13003	
FCDP130184690A/YA6		650	920	690	724	7.5	7.5	16700	45500	10	1490					130FC92690
FCD132164440/YA3		660	820	440	702	7.5	7.5	7260	20960	6	536	239509FA			4R13201	
FCD132176450		660	880	450	727	7.5	7.5	8390	22000	4	792	313477/VJ202				
FCDP134174530/YA6		670	870	530	725	6	6	13700	34500	10	827		533258			
FCDP134190690/YA6		670	950	690	740	6	6	22400	50000	10	1606		517682			
FCD136188600/YA6		680	940	600	743	7.5	7.5	19000	42500	10	1295		533683			
FCDP136196640/YA6		680	980	640	760	7.5	7.5	21200	45000	10	1219	313154C	524229			
FCDP136204650/YA6		680	1020	650	803	7.5	7.5	15700	48000	10	1970				4R13603	
FCDP136204680/YA6		680	1020	680	775	7.5	7.5	17300	49500	10	2060				4R13604	
FCDP138196715/YA6		690	980	715	767.5	7.5	7.5	17900	48000	10	1790	313008A	517681	690RV9831	4R13802	138FC98715
FCDP138196750/YA6		690	980	750	766	7.5	7.5	19200	53000	10	1880			690RV9812	4R13803	138FC98750A
FCDP140186620/YA6		700	930	620	763	7.5	7.5	12900	38000	10	1200	316967	530487	700RV9311	4R14003	
FCD140196600/YA3		700	980	700	774	7.5	7.5	17800	49000	5	1720			700RV9821		140FC98700
FCDP140200710/YA6		700	1000	710	770	7.5	7.5	18900	47400	10	1810					140FC100710W
FCDP142200715/YA6		710	1000	715	787.5	7.5	7.5	18700	50500	10	1850	313403C	517680A	710RV1011	4R14205	
FCDP142204710/YA6		710	1020	710	785	7.5	7.5	19300	49100	10	1940					142FC102710
FCDP146188500/YA6		730	940	500	780	7.5	7.5	12300	42500	10	1000		526447			
FCDP146192620/YA6		730	960	620	790	7.5	7.5	15000	44500	10	1250	315982	525438	730RV9611		
FCDP146206750/YA6		730	1030	750	809	7.5	7.5	20650	56400	10	2050	314518B	517679	730RV1011		
FCD150200500/YA6		750	1000	500	816	7.5	7.5	12100	32000	7	1162	314420/VJ202				
FCDP150200670/YA6		750	1000	670	813	7.5	7.5	16800	49500	10	1520	315973	524881A	750RV1011		
FCDP150218615/YA6		750	1090	615	836	7.5	7.5	21600	43000	10	1966		800494			
FCDP150226670/YA6		750	1133	670	848	7.5	7.5	21000	50100	10	2460					150FC113670
FCDP152206750/YA6		760	1030	750	828	7.5	7.5	17300	59500	10	2000				4R15204	152FC103750
FCDP152206750A/YA6		760	1030	750	834	7.5	7.5	18200	53500	10	1880			760RV1031		
FCDP156214780/YA6		780	1070	780	853	7.5	7.5	23200	65000	10	2310	BC4-8015/HB1	540088			156FC107780
FCDP158203610/YA6		790	1015.9	610	850	7.5	7.5	15500	48800	10	1290					158FC102610

FCDP158224810/YA6		790	1120	810	870	7.5	7.5	30000	69000	10	2605		517678			
FCDP160216700/YA6		800	1080	700	870	7.5	7.5	16500	55000	10	1950				4R16004	
FCDP160216700A/YA6		800	1080	700	878	7.5	7.5	19600	58000	10	1950	315599A	526169	800RV1011		
FCDP160216750/YA6		800	1080	750	880	7.5	7.5	18500	56000	10	2050			800RV1012	4R16005	160FC108750
FCDP164226800/YA3		820	1130	800	903	7.5	7.5	23900	66500	10	2540	BC4B320455	803317	820RV1117	4R16406	164FC113800D
FCDP164232840A/YA6		820	1160	840	911	7.5	7.5	23600	71500	10	2900			820RV1111A	4R16403	164FC116840
FCDP166216710/YA6		830	1080	710	896	7.7	7.7	22800	62000	10	1725		567729		4R16601	166FC108710
FCDP168232840/YA6		840	1160	840	920	7.5	7.5	24700	70800	10	2810			840RV1111	4R16801	168FC116840
FCDP170230650/YA6		850	1150	650	941	7.5	7.5	15700	51000	10	1980				4R17001	
FCDP170230800/YA6		850	1150	800	930	7.5	7.5	19700	71000	10	2430				4R17003	
FCDP170230840/YA6		850	1150	840	928	7.5	7.5	25300	73100	10	2586	315826A	545636	850RV1114	4R17009	
FCDP170236650/YA6		850	1180	650	945	7.5	7.5	19600	53000	10	2260			850RV1133	4R17004	170FC118650
FCDP170236850/YA6		850	1180	850	928	7.5	7.5	24100	78500	10	2970				4R17002	
FCDP170236850A/YA6		850	1180	850	940	7.5	7.5	24600	72000	10	2850			850RV1111	4R17014	170FC118850B
FCDP170244900/YA6		850	1220	900	940	7.5	7.5	28000	82400	10	3720		523397			
FCDP172226670/YA6		860	1130	670	934	7.5	7.5	18320	56300	10	1792			860RV1132		
FCDP172228750/YA6		860	1140	750	938	7.5	7.5	17200	61000	10	2200				4R17202	172FC114750
FCDP176228800/YA6		880	1140	800	946	6	6	23600	77400	10	2210					176FC114800
FCDP180244840/YA6		900	1220	840	989	7.5	7.5	26100	78600	10	3075	316043	527048	900RV1212		
FCDP180256930/YA6		900	1280	930	1000	7.5	7.5	32500	92600	10	4096	313528C	541812	900RV1213		180FC128930
FCDP1882641000/YA6		940	1320	1000	1029	7.5	7.5	41200	95600	10	4380		517676			
FCDP190272975/YA6		950	1360	975	1075	9.5	9.5	31700	97000	10	4900	BC4B319862				
FCDP1902721000/YA6		950	1360	1000	1075	9.5	9.5	37200	108000	10	5020	314520C	517369A	950RV1311		
FCDP196262880/YA6		980	1310	880	1061.7	9.5	9.5	28300	83560	10	3320	319303	580309			
FCDP1962721000/YA6		980	1360	1000	1080	9.5	9.5	41500	106000	10	4675		517740			
FCDP198272760/YA6		990	1360	760	1080	12	12	30500	68000	10	3270		522071			
FCDP200262880/YA6		1000	1310	880	1080	12	12	23400	88500	10	3260				4R20001	
FCDP200272800/YA6		1000	1360	800	1090	12	12	25000	85000	10	3530				4R20002	
FCDP200272800A/YA6		1000	1360	800	1101	12	12	27300	80800	10	3574	316234A	527021			
FCDP206276850/YA6		1030	1380	850	1124	12	12	24400	89000	10	3800				4R20601	206FC138850A
FCDP2082881000/YA6		1040	1440	1000	1145	12	12	44000	112000	10	5175		517675			
FCDP212272800/YA6		1060	1360	800	1137	12	12	32500	91500	10	3005		521910			
FCDP2203001000/YA6		1100	1500	1000	1194	12	12	47500	116000	10	5360		517737			
FCDP2243161150/YA6		1120	1580	1150	1255	12	12	43300	134100	10	7420			1120RV1511		
FCDP230300760/YA6		1150	1500	760	1240	12	12	33500	86500	10	3625		518206			
FCDP2403181050/YA6		1200	1590	1050	1295	12	12	36000	133000	10	6220				4R24002	
FCDP2403181050A/YA6		1200	1590	1050	1305	12	12	41200	128000	10	5970	315494B	518649			
FCDP2403241150/YA6		1200	1620	1150	1305	12	12	58500	157000	10	7500		518578			
FCDP2403401150/YA6		1200	1700	1150	1320	12	12	64000	194000	10	8670		518218			
FCDP2503301000/YA6		1250	1650	1000	1360	12	12	48000	162000	10	6380		534794			
FCDP2503501370/YA6		1250	1750	1150	1370	12	12	65500	210000	10	9000		525063			
FCDP254320850/YA6		1270	1602	850	1354	12	12	32800	111000	10	4200					254FC160850
FCDP2603401000/YA6		1300	1700	1000	1410	12	12	48000	172000	10	6600		534795			
FCDP2703701150/YA6		1350	1850	1150	1470	12	12	68000	198000	10	10050		525078			
FCDP2803801150/YA6		1400	1900	1150	1520	12	12	64000	156000	10	9470		528717			
FCDP2803801360/YA6		1400	1900	1360	1521	12	12	68000	180000	10	11300	BC4-8005/HA4				
FCDP2962661000/YA6		1480	1830	1000	1569	12	12	50000	162000	10	6370		525213			
FCDP3003901200/YA6		1500	1950	1200	1605	12	12	72000	226000	10	10150		528807			
FCDP3003901230/YA6		1500	1950	1230	1610	12	12	71000	200000	10	9880		534900			
FCDP3203901230/YA6		1600	1950	1230	1690	12	12	58500	194000	10	8400		534899			
FCDP3204481300/YA6		1600	2240	1300	1760	15	15	91500	310000	10	16800		535085			

Double Row Tapered Roller Bearing With Two-piece Outer Ring(Inch Series)



Bearing Numbers	Boundary dimensions(mm)				Design	Abutment and fillet dimensions(mm)				Value				Weight(kg)
	d	D	T	B		d _{a min}	D _{b max}	r _{b max}	r _{a max}	e	Y ₁	Y ₂	Y ₀	Refer
868D/854	101.6	190.5	127	117.475	1	113	168	1.6	3.2	0.33	2	3	2	14.5
868D/854X	101.6	200.025	127	127	1	113	172	1.6	3.2	0.33	2	3	2	18.2
71426D/71750	107.95	190.5	101.6	98.425	1	121	171	1.6	3.2	0.42	1.6	2.4	1.6	11.8
946D/932	107.95	212.725	152.4	142.885	1	123	187	3.2	3.2	0.33	2.1	3.1	2	23.9
71450D/71750	114.3	190.5	101.6	98.425	1	125	171	1.6	3.2	0.42	1.6	2.4	1.6	11
HH224346D/HH224310	114.3	212.725	152.4	142.885	1	127	191	3.2	3.2	0.33	2.1	3.1	2	21.9
95474D/95925	120.65	234.95	152.4	139.7	1	146	212	6.4	3.2	0.37	1.8	2.7	1.8	28.1
48290D/48220	127	182.562	76.2	76.2	1	136	167	3.2	1.6	0.31	2.2	3.3	2.2	6.7

48290TD/48220	127	182.562	76.2	76.2	2	136	167	1.6	1.6	0.31	2.2	3.3	2.2	6.7
67388D/67322	127	196.85	92.075	92.075	1	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	10.4
67388D/67320	127	203.2	92.075	92.075	1	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	11.8
95499D/95925	127	234.95	152.4	139.7	1	147	212	5	3.3	0.37	1.8	2.7	1.8	26.7
EE153053D/153097	127	247	171.45	161.925	1	153.2	217.4	3.2	3.2	0.32	2.1	3.13	2.05	35.9
95499D/95975	127	247.65	152.4	139.7	1	150.6	204.3	3.2	5.2	0.37	1.83	2.72	1.79	32.4
EE153053D/153100	127	254	171.45	161.925	1	146	223	3.2	6.4	0.32	2.1	3.1	2.1	36.5
EE153053D/153101	127	258.763	171.45	161.925	1	153.2	217.4	6.4	3.2	0.32	2.1	3.13	2.05	41.6
EE153053D/153102	127	260.35	171.45	161.925	1	153.2	217.4	6.4	3.2	0.32	2.1	3.13	2.05	42.5
HH231637D/HH231610	127	288.925	158.75	149.225	1	172.1	252.1	6.4	13.2	0.32	2.12	3.15	2.07	50.9
HH231637D/HH231615	127	295.275	158.75	149.225	1	172.1	252.1	6.4	13.2	0.32	2.12	3.15	2.07	54.3
74510D/74850	130.005	215.9	123.825	123.825	1	145	195	3.2	1.6	0.49	1.4	2.1	1.4	17.2
74510D/74856	130.005	217.488	123.825	123.825	1	153.1	193.4	3.2	1.6	0.49	1.38	2.06	1.35	17.8
74512D/74850	130.175	215.9	101.6	101.6	1	145	195	1.6	3.2	0.49	1.4	2.1	1.4	14.7
74512D/74856	130.175	217.488	101.6	101.6	1	153.1	193.4	3.2	1.6	0.49	1.38	2.06	1.35	15
73512D/73875	130.175	222.25	53.975	60.579	1	160.8	197.9	3.2	3.6	0.44	1.54	2.3	1.51	9.38
67390D/67322	133.35	196.85	92.075	92.075	1	142	180	1.6	3.2	0.34	2	2.9	1.9	9.3
67390TD/67322	133.35	196.85	92.075	92.075	2	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	9.46
67392TD/67322	133.35	196.85	120.65	120.65	2	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	11.6
67390D/67320	133.35	203.2	92.075	92.075	1	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	10.9
67390TD/67320	133.35	203.2	92.075	92.075	2	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	10.9
67392TD/67320	133.35	203.2	120.65	120.65	2	145.8	180.1	3.2	1.6	0.34	1.96	2.92	1.92	13.5
95526TD/95925	133.35	234.95	152.4	139.7	2	150.6	204.3	3.2	1.6	0.37	1.83	2.72	1.79	25.6
95526TD/95975	133.35	247.65	152.4	139.7	2	150.6	204.3	3.2	1.6	0.37	1.83	2.72	1.79	30.9
48393D/48320	136.525	190.5	77.788	77.788	1	149.7	174.8	3.2	1.6	0.32	2.1	3.13	2.06	6.87
48393D/48328	136.525	203.2	77.788	77.788	1	149.7	174.8	3.2	1.6	0.32	2.1	3.13	2.06	9.22
74539TD/74850	136.525	215.9	123.825	123.825	2	153.1	193.4	3.2	1.6	0.49	1.38	2.06	1.35	15.9
74539TD/74856	136.525	217.488	123.825	123.825	2	153.1	193.4	3.2	1.6	0.49	1.38	2.06	1.35	16.4
H228649D/H228610	136.525	225.425	120.65	120.65	1	149	204	1.6	3.2	0.33	2	3	2	19
H228649TD/H228610	136.525	225.425	120.65	120.65	2	155.8	201.5	3.2	1.6	0.33	2.03	3.02	1.98	19.4
48680D/48620	139.7	200.025	75.408	77.788	1	151	185	0.8	3.2	0.34	2	3	2	7.9
73550D/73875	139.7	222.25	53.975	60.579	1	160.8	197.9	3.2	3.6	0.44	1.54	2.3	1.51	8.53
EE455048D/455116	139.7	295.275	171.45	165.1	1	162	256	3.2	6.4	0.31	2.2	3.3	2.2	55.4
HH234032D/HH234010	139.7	307.975	171.45	161.925	1	187.3	270.5	6.7	13.5	0.33	2.07	3.08	2.02	62.3
HH234032D/HH234018	139.7	317.5	171.45	161.925	1	187.3	270.5	6.7	13.5	0.33	2.07	3.08	2.02	68.1
48685TD/48620	142.875	200.025	74.613	77.788	2	155.1	182.5	3.2	0.8	0.34	2.01	2.99	1.96	7.58
81576D/81962	146.05	244.475	92.075	87.313	1	174.2	218.8	3.2	1.6	0.35	1.93	2.88	1.89	16.3
HH234040D/HH234018	146.05	317.5	171.45	161.925	1	180	279	13.5	6.8	0.33	2.1	3.1	2	62.7
82581TD/82931	147.638	236.538	133.334	132.351	2	165.7	211.2	3.2	1.6	0.44	1.53	2.27	1.49	21.7
82581TD/82950	147.638	241.3	133.334	132.351	2	165.7	211.2	3.2	1.6	0.44	1.53	2.27	1.49	23.6

82587D/82931	149.225	236.538	105.347	106.363	1	160	213	1.5	3.2	0.44	1.5	2.3	1.5	17.5
82587TD/82931	149.225	236.538	105.347	106.363	2	165.7	211.2	3.2	1.6	0.44	1.53	2.27	1.49	17.9
82587D/82950	149.225	241.3	105.347	106.363	1	165.7	211.2	3.2	1.6	0.44	1.53	2.27	1.49	19.4
82587TD/82950	149.225	241.3	105.347	106.363	2	165.7	211.2	3.2	1.6	0.44	1.53	2.27	1.49	19.4
99587D/99100	149.225	254	120.65	120.65	1	171.1	223.5	3.2	1.6	0.41	1.66	2.47	1.62	26
M231649D/M231610	152.4	222.25	84.138	84.138	1	164	207	1.6	1.6	0.33	2	3	2	11.1
M231649TD/M231610	152.4	222.25	84.138	84.138	2	167.9	201.5	1.6	1.6	0.33	2.03	3.02	1.98	11
81601D/81962	152.4	244.475	92.075	87.312	1	167	225	1.6	3.2	0.35	1.9	2.9	1.9	15.3
81604TD/81962	152.4	244.475	119.063	120.651	2	175.4	218.8	3.2	1.6	0.35	1.93	2.88	1.89	19.5
99600TD/99100	152.4	254	120.65	120.65	2	171.1	223.5	3.2	1.6	0.41	1.66	2.47	1.62	25.3
99600D/99100	152.4	254	133.35	133.35	1	171.1	223.5	3.2	1.6	0.41	1.66	2.47	1.62	27.2
99603D/99100	152.4	254	158.75	158.75	1	165	230	1.6	3.2	0.41	1.7	2.5	1.6	29.6
99601TD/99100	152.4	254	158.75	158.75	2	171.1	223.5	3.2	1.6	0.41	1.66	2.47	1.62	31.1
EE517060D/517117	152.4	298.45	111.125	107.95	1	176	272	3.2	3.2	0.33	2	3	2	34.2
HH234049D/HH234010	152.4	307.975	171.45	161.925	1	187.3	270.5	6.7	9.5	0.33	2.07	3.09	2.03	58.2
HH234049D/HH234018	152.4	317.5	171.45	161.925	1	179	279	9.5	6.8	0.33	2.1	3.1	2	60.7
81603D/81962	152.781	244.475	92.075	87.313	1	174.2	218.8	3.2	1.6	0.35	1.93	2.88	1.89	15.1
H432549D/H432510	155.575	247.65	122.238	122.238	1	167	226	1.6	3.2	0.37	1.8	2.7	1.8	22.4
46780DR/46720	158.75	225.425	76.2	79.375	2	179	206.5	0.8	3.2	0.38	1.76	2.62	1.72	10.3
EE217063D/217112	158.75	285.75	125.413	128.588	1	182.2	245.7	3.2	6.4	0.4	1.68	2.5	1.64	35.3
EE217063D/217114	158.75	290.513	125.413	125.413	1	182.2	246.2	3.2	6.4	0.4	1.68	2.5	1.64	36.8
EE280625D/281200	158.75	304.8	114.3	109.438	1	207.2	271.3	3.2	6.4	0.36	1.87	2.79	1.83	37.5
46790D/46720	165.1	225.425	76.2	79.375	1	175	208	0.8	3.2	0.38	1.8	2.6	1.7	9.7
H234649TD/H234610	165.1	269.875	146.05	146.05	2	186.4	243.7	1.6	3.2	0.33	2.03	3.02	1.98	32.2
HM237542D/HM237510	174.625	288.925	123.825	123.825	1	190	266	1.6	3.2	0.32	2.1	3.2	2.1	31.3
94688TD/94113	174.625	288.925	158.75	158.75	2	201	255	1.6	3.2	0.47	1.44	2.15	1.41	40.2
94688TD/94118	174.625	298.45	158.75	158.75	2	201	255	1.6	3.2	0.47	1.44	2.15	1.41	45.6
EE590689TD/591350	174.625	342.9	190.5	187.325	2	208	285.7	3.2	6.4	0.49	1.37	2.04	1.34	77.6
67790D/67720	177.8	247.65	90.488	90.488	1	187	228	1.6	3.2	0.44	1.5	2.3	1.5	13.3
82680D/82622	177.8	273.05	112.713	112.71	1	196.9	251.3	1.6	3.2	0.52	1.29	1.92	1.26	22.7
82680D/82620	177.8	279.4	112.712	112.71	1	191	253	1.6	3.2	0.53	1.3	1.9	1.2	24.9
EE91700D/91112	177.8	285.75	106.363	106.36	1	200.6	251.8	1.6	3.2	0.43	1.57	2.34	1.53	26
HM237546D/HM237510	177.8	288.925	123.825	123.825	1	191	266	1.6	3.2	0.32	2.1	3.2	2.1	30.5
94706D/94113	177.8	288.925	123.825	123.825	1	192	261	1.6	3.2	0.47	1.4	2.1	1.4	32.1
HM237546DD/HM237510	177.8	288.925	158.75	158.75	1	191	266	1.6	3.2	0.32	2.1	3.2	2.1	36.7
94704D/94113	177.8	288.925	158.75	158.75	1	201	255	1.6	3.2	0.47	1.44	2.15	1.41	39.1
94706D/94118	177.8	298.45	123.825	123.825	1	192	265	1.6	3.2	0.47	1.4	2.1	1.4	36.3
94704D/94118	177.8	298.45	158.75	158.75	1	201	255	1.6	3.2	0.47	1.44	2.15	1.41	44.5
EE280700D/281200	177.8	304.8	114.3	109.438	1	207.2	271.3	1.6	3.2	0.36	1.87	2.79	1.83	33.1
HM237549TD/HM237510	180.975	288.925	158.75	158.75	2	200.9	260.1	1.6	3.2	0.32	2.12	3.15	2.07	35.9

94713TD/94113	180.975	288.925	158.75	158.75	2	201	255	1.6	3.2	0.47	1.44	2.15	1.41	38
94713TD/94118	180.975	298.45	158.75	158.75	2	201	255	1.6	3.2	0.47	1.44	2.1	1.41	43.4
M238849D/M238810	187.325	269.875	101.6	101.6	1	206.4	245.5	1.6	3.2	0.33	2.03	3.02	1.98	19
H239649D/H239610	187.325	319.964	161.925	168.276	1	209	293	3.2	4.8	0.32	2.12	3.15	2.07	53.7
EE222074D/222126	187.325	319.964	161.925	168.275	1	211.9	280.4	3.2	4.8	0.4	1.68	2.5	1.64	53.8
H239649D/H239612	187.325	320.675	161.925	168.275	1	204	292	3.2	4.8	0.32	2.1	3.2	2.1	51.2
H239649D/H239612	187.325	320.675	161.925	168.275	1	211.3	286.3	3.2	4.8	0.32	2.12	3.15	2.07	51.9
EE222074D/222128	187.325	320.675	161.925	168.275	1	211.9	280.4	3.2	4.8	0.4	1.68	2.5	1.64	54.3
93751D/93125	190.5	317.5	133.35	133.35	1	216	288	6.4	3.2	0.52	1.3	1.9	1.3	43
93751D/93126	190.5	317.5	133.35	142.875	1	222.9	276.8	6.4	3.2	0.52	1.29	1.92	1.26	45
EE420750D/421437	190.5	365.049	152.4	158.75	1	221	329	3.2	3.2	0.4	1.68	2.5	1.64	72.8
EE420750D/421437	190.5	365.049	152.4	158.75	2	238.7	317	3.2	3.2	0.4	1.68	2.5	1.64	77.2
EE420750D/421450	190.5	368.3	152.4	158.75	1	238.7	317	3.2	3.2	0.4	1.68	2.5	1.64	79.4
EE420750D/421450	190.5	368.3	152.4	158.75	2	238.7	317	3.2	3.2	0.4	1.68	2.5	1.64	79.4
67980TD/67919	198.438	279.4	87.313	87.313	2	219.1	259.1	0.8	3.2	0.51	1.33	1.97	1.3	16.9
67980TD/67920	198.438	282.575	87.313	87.313	2	219.1	259.1	0.8	3.2	0.51	1.33	1.97	1.3	17.8
93788D/93125	199.975	317.5	133.35	133.35	1	221	288	6.4	3.2	0.52	1.3	1.9	1.3	40
93788D/93126	199.975	317.5	133.35	142.875	1	222.9	276.8	6.4	3.2	0.52	1.29	1.92	1.26	42
EE132081D/132125	203.2	317.5	95.25	95.25	1	235.4	285	3.2	3.2	0.31	2.15	3.21	2.11	28
93800D/93125	203.2	317.5	123.825	123.825	1	222	286	1.6	3.2	0.52	1.29	1.92	1.26	36.3
93801D/93125	203.2	317.5	133.35	133.35	1	222	288	6.4	3.2	0.52	1.3	1.9	1.3	39.1
93801D/93126	203.2	317.5	133.35	142.875	1	222.9	276.8	6.4	3.2	0.52	1.29	1.92	1.26	41
EE132081D/132127	203.2	319.088	95.25	95.25	1	235.4	285	3.2	3.2	0.31	2.15	3.21	2.11	28.6
EE420800D/421437	203.2	365.049	152.4	158.75	1	229	332	3.2	3.2	0.42	1.6	2.4	1.6	68.5
EE420801D/421437	203.2	365.049	158.75	158.75	1	237.5	317	3.2	3.2	0.4	1.68	2.5	1.64	73.1
EE420800D/421450	203.2	368.3	152.4	158.75	1	238.7	317	3.2	3.2	0.4	1.68	2.5	1.64	74.8
EE420801D/421450	203.2	368.3	158.75	158.75	1	237.5	317	3.2	3.2	0.4	1.68	2.5	1.64	75.4
67985D/67919	206.375	279.4	87.313	87.313	1	219.1	259.1	0.8	3.2	0.1	1.33	1.97	1.3	15.2
67985D/67920	206.375	282.575	87.313	87.313	1	216	261	0.8	3.3	0.51	1.3	2	1.3	16.8
H242649D/242610	206.375	336.55	184.15	180.975	1	222	306	1.5	3.3	0.33	2	3	2	64.2
H242649D/H242610	206.375	336.55	184.15	180.975	2	232.1	300.1	1.6	3.2	0.33	2.03	3.02	1.98	65.1
93826TD/93125	209.55	317.5	184.15	184.15	2	222.9	278.4	1.6	3.2	0.52	1.29	1.92	1.26	48.3
93826TD/93126	209.55	317.5	184.15	193.675	2	222.9	276.8	1.6	3.2	0.52	1.29	1.92	1.26	50.2
EE430829TD/431575	210.769	400.05	212.725	158.75	2	250	344.6	3.2	3.2	0.44	1.54	2.29	1.5	98.7
LM742746TD/LM742710	214.975	285.75	92.075	85.725	2	226.2	265.2	1.6	3.2	0.48	1.4	2.09	1.37	15.3
LM742746TD/LM742714	214.975	288.925	92.075	85.725	2	226.2	265.2	1.6	3.2	0.48	1.4	2.09	1.37	16.3
LM742749D/LM742710	215.9	285.75	85.725	85.725	1	229	266	0.8	3.2	0.48	1.4	2.09	1.37	14.8
LM742749D/LM742714	215.9	288.925	85.75	85.725	1	228	265.2	0.8	3.2	0.48	1.4	2.09	1.37	15.8
EE130850D/131400	215.9	355.6	120.65	120.65	1	260.5	319.2	1.6	1.6	0.33	2.04	3.04	2	50
9977D/9920	216.103	330.02	142.875	152.4	1	232	301	3.2	3.2	0.55	1.2	1.8	1.2	43.2

9974D/9920	216.103	330.2	127	130.175	1	236.8	300.7	1.6	3.2	0.55	1.22	1.82	1.19	38.8
H244849D/H244810	219.075	358.775	200.025	196.85	1	236	323	1.6	6.4	0.33	2	3	2	77.8
H244848TD/H244810	219.075	358.775	200.025	196.85	2	244.3	319.4	1.6	6.4	0.33	2.03	3.02	1.98	80.9
M244246TD/M244210	219.936	314.325	123.822	115.888	2	238.9	288.1	1.6	3.2	0.33	2.03	3.02	1.98	29.6
M244249D/M244210	220.662	314.325	115.888	115.888	1	233	292	1.6	3.2	0.33	2	3	2	29.6
EE130887D/131400	225.425	355.6	120.65	120.65	1	260.5	319.2	5.6	1.6	0.33	2.04	3.04	2	46.8
EE130888D/131400	225.425	355.6	165.1	165.1	1	251	329	8	1.5	0.33	2	3	2	57.7
8573TD/8520	228.6	327.025	93.663	93.663	2	255.5	299.9	1.6	3.2	0.41	1.66	2.47	1.62	25.9
8573TD/8522	228.6	328.625	93.663	93.663	2	255.5	299.9	1.6	3.2	0.41	1.66	2.47	1.62	26.5
EE130900D/131400	228.6	355.6	120.65	120.65	1	260.5	319.2	1.6	1.6	0.33	2.04	3.04	2	45.8
EE130901D/131400	228.6	355.6	120.65	120.65	1	260.5	319.2	5.6	1.6	0.33	2.04	3.04	2	45.8
EE130903D/131400	228.6	355.6	165.1	165.1	1	253	329	8	1.5	0.33	2	3	2	56.7
EE529091D/529157	228.6	400.05	139.7	139.7	1	256	367	3.2	3.2	0.31	2.18	3.24	2.13	74.2
EE430901D/431575	228.6	400.05	161.925	158.75	1	261.5	344.6	3.2	3.2	0.44	1.54	2.29	1.5	84.5
EE700090D/700167	228.6	425.45	165.1	177.8	1	259	384	3	6.4	0.33	2	3	2	110
8576D/8520	234.95	327.025	93.663	93.663	1	248	304	1.6	3.2	0.41	1.7	2.5	1.6	24.4
8576D/8522	234.95	328.625	93.663	93.663	1	255.5	299.9	1.6	3.2	0.41	1.66	2.47	1.62	24.8
EE130926TD/131400	234.95	355.6	165.1	158.75	2	259.4	319.2	1.6	1.6	0.33	2.04	3.04	2	54.2
EE130927TD/131400	234.95	355.6	184.15	184.15	2	260.5	319.2	1.6	1.6	0.33	2.04	3.04	2	60.4
H247549D/H247510	234.95	384.175	209.55	209.55	1	251	344	1.6	6.4	0.33	2	3	2	95.8
EE127094D/127135	241.224	349.148	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	34
EE127094D/127137	241.224	350.838	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	34.8
EE127094D/127138	241.224	355.498	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	36.9
EE127094D/127140	241.224	355.6	107.95	107.95	1	257	328	1.6	3.2	0.35	1.9	2.8	1.9	36.9
EE170951D/171400	241.3	355.6	92.862	92.71	1	277.7	327.8	1.6	3.2	0.36	1.86	2.77	1.82	32.6
EE170951D/171436	241.3	365.049	92.862	92.71	1	277.7	327.8	1.6	3.2	0.36	1.86	2.77	1.82	36.5
EE170951D/171450	241.3	368.3	92.862	92.71	1	277.7	327.8	1.6	3.2	0.36	1.86	2.77	1.82	37.8
EE127097D/127135	241.478	349.148	107.95	107.95	1	257	325	1.6	3.2	0.35	1.9	2.8	1.9	33.8
EE127097D/127137	241.478	350.838	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	34.7
EE127097D/127138	241.478	355.498	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	36.9
EE127097D/127140	241.478	355.6	107.95	107.95	1	267.2	319.1	1.6	3.2	0.35	1.91	2.84	1.86	36.9
LM247748D/LM247710	244.475	327.025	92.075	92.075	1	256	306	1.6	3.2	0.49	1.4	2.1	1.4	21.6
EE126096D/126150	244.475	381	146.05	146.05	1	269	343	3.2	4.8	0.52	1.31	1.95	1.28	61.4
EE220975D/221575	247.65	400.05	114.3	119.06	1	291.8	359.1	1.6	6.4	0.39	1.71	2.54	1.67	56.4
EE220977TD/221575	247.65	400.05	192.088	196.848	2	291.8	359.1	3.2	6.4	0.39	1.71	2.54	1.67	86.1
HH249949D/HH249910	247.65	406.4	219.075	215.9	1	268	366	3.2	6.4	0.33	2	3	2	115
HM252340D/HM252310	250.825	422.275	139.7	152.4	1	305.3	384.3	3.6	3.2	0.33	2.03	3.02	1.98	83
HM252340D/HM252315	250.825	431.724	139.7	145.258	1	305.3	384.5	3.6	3.6	0.33	2.03	3.02	1.98	88.5
M249746TD/M249710	252.413	358.775	139.7	130.175	2	274.8	330.1	1.6	3.2	0.33	2.03	3.02	1.98	43.5
EE171000D/171400	254	355.6	92.862	92.71	1	266	331	1.6	3.2	0.36	1.9	2.8	1.8	27.1

M249748D/M249710	254	358.775	130.175	130.175	1	269	335	3.2	3.2	0.33	2	3	2	42
EE171000D/171436	254	365.049	92.862	92.71	1	277.7	327.8	1.6	3.2	0.36	1.86	2.77	1.82	32.9
EE171000D/171450	254	368.3	92.862	92.71	1	269	340	1.6	3.2	0.36	1.85	2.76	1.81	32.5
HM252343D/HM252310	254	422.275	139.7	152.4	1	305.3	384.3	3.6	3.2	0.33	2.03	3.02	1.98	81.6
HM252344D/HM252310	254	422.275	139.7	152.4	1	305.3	384.3	3.6	3.2	0.33	2.03	3.02	1.98	81.6
HM252342D/HM252310	254	422.275	152.4	152.4	1	303	384.3	6.7	3.2	0.33	2.03	3.02	1.98	83.7
HM252343D/HM252315	254	431.724	139.7	145.258	1	305.3	384.5	3.6	3.6	0.33	2.03	3.02	1.98	87.1
HM252342D/HM252315	254	431.724	152.4	145.258	1	303	384.5	6.7	3.6	0.33	2.03	3.02	1.98	89.2
738101D/738172	254	438.15	165.1	165.1	1	283	400	3.2	6.4	0.36	1.9	2.8	1.8	107
EE82101D/822175	254	444.5	133.35	133.35	1	283	400	3.2	6.4	0.36	1.9	2.8	1.8	107
EE134102D/134143	260.35	365.125	107.95	107.95	1	277	339	3.3	6.4	0.37	1.8	2.7	1.8	34.4
EE134102D/134145	260.35	368.3	107.95	107.95	1	282.9	334.7	3.2	6.4	0.37	1.8	2.69	1.76	35.9
EE221025D/221575	260.35	400.05	114.3	119.06	1	290	366	6.4	6.4	0.39	1.71	2.54	1.67	52
HM252347D/HM252310	260.35	422.275	139.7	152.4	1	305.3	384.3	3.6	3.2	0.33	2.03	3.02	1.98	78.8
HM252348D/HM252310	260.35	422.275	152.4	155.575	1	303.6	384.3	6.4	3.2	0.33	2.03	3.02	1.98	81.5
HM252349D/HM252310	260.35	422.275	152.4	155.575	1	303.6	384.3	6.4	3.2	0.33	2.03	3.02	1.98	81.5
HM252348DD/HM252310	260.35	422.275	180.975	152.4	1	298	384.3	9.5	3.2	0.33	2.03	3.02	1.98	84.5
HM252347D/HM252315	260.35	431.724	139.7	145.258	1	305.3	384.5	3.6	3.6	0.33	2.03	3.02	1.98	84.3
HM252349D/HM252315	260.35	431.724	152.4	148.433	1	303.6	384.5	6.4	3.6	0.33	2.03	3.02	1.98	87.1
HM252348D/HM252315	260.35	431.724	180.975	145.258	1	298	384.5	9.5	3.6	0.33	2.03	3.02	1.98	90
823103D/823175	260.35	444.5	196.85	196.85	1	292.8	396.6	6.4	3.2	0.55	1.24	1.84	1.21	125
EE221039TD/221575	263.525	400.05	196.848	192.088	2	291.8	359.1	1.6	6	0.39	1.71	2.54	1.67	76.7
M252345TD/M252310	264.98	381	146.05	136.525	2	289.1	350.8	3.2	3.2	0.33	2.03	3.02	1.98	51.4
LM451349D/LM451310	266.7	355.6	109.538	107.95	2	281	335	1.6	3.2	0.36	1.87	2.79	1.83	29.9
LM451349TD/LM451310	266.7	355.6	109.538	107.95	1	284.1	332	1.6	3.2	0.36	1.87	2.79	1.83	29.5
LM451349D/LM451312	266.7	357.2	109.538	107.95	1	284.1	332	1.6	3.2	0.36	1.87	2.79	1.83	30.2
LM451349TD/LM451312	266.7	357.2	109.538	107.95	2	284.1	332	1.6	3.2	0.36	1.87	2.79	1.83	30.2
EE275106D/275155	266.7	393.7	130.175	130.175	1	309	364.4	3.2	6.4	0.4	1.68	2.5	1.64	55.3
EE275106D/275158	266.7	403.225	130.175	122.24	1	309	365.4	3.2	6.4	0.4	1.68	2.5	1.64	59.4
EE275106D/275160	266.7	406.4	130.175	122.24	1	309	365.4	3.2	6.4	0.4	1.68	2.5	1.64	61.3
M252349D/M252310	269.875	381	136.525	136.525	1	287	356	3.2	3.2	0.33	2	3	2	48.6
M252349TD/M252310	269.875	381	136.525	136.525	2	290.9	350.8	1.6	3.2	0.33	2.03	3.02	1.98	48.5
EE275109D/275155	276.225	393.7	130.175	130.175	1	294	366	1.6	6.4	0.4	1.68	2.5	1.64	50.5
EE275109D/275158	276.225	403.225	130.175	122.24	1	309	365.4	1.6	6.4	0.4	1.68	2.5	1.64	55.3
EE275109D/275160	276.225	406.4	130.175	122.24	1	309	365.4	1.6	6.4	0.4	1.68	2.5	1.64	57.2
EE135111D/135155	279.4	393.7	127	127	1	297	368	1.6	6.4	0.4	1.68	2.5	1.64	48.1
HH255149D/HH255110	279.4	457.2	244.475	244.475	1	309	412	1.6	6.4	0.33	2.03	3.02	1.98	158
EE722111D/722185	279.4	469.9	166.688	169.862	1	313	431	6.4	3.3	0.38	1.8	2.7	1.7	119
EE722112D/722185	279.4	469.9	184.15	169.863	1	324.9	412.5	9.5	3.2	0.38	1.79	2.67	1.75	123
EE941106D/941950	279.4	495.3	134.938	137.952	1	349.3	440.5	1.6	3.2	0.4	1.68	2.5	1.64	114

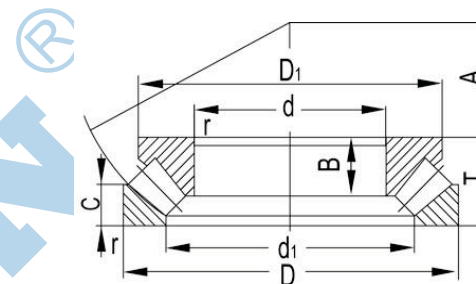
LM654645D/LM654610	279.578	380.898	117.475	117.475	1	296	355	1.6	3.2	0.43	1.6	2.3	1.5	41
EE128113TD/128160	280	406.4	206.375	206.375	2	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	85.1
EE128113D/128160	280	406.4	206.375	206.375	1	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	81.4
EE128114D/128160	280	406.4	206.375	206.375	1	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	81.4
EE128113TD/128161	280	409.981	206.375	206.375	2	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	81.4
EE128113D/128161	280	409.981	206.375	206.375	1	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	85.1
EE128114D/128161	280	409.981	206.375	206.375	1	307.1	368.9	3.2	3.2	0.39	1.75	2.61	1.71	85.1
LM654648D/LM654610	285.75	380.898	117.475	117.475	1	300	355	1.6	3.2	0.43	1.6	2.3	1.5	38.5
EE921126D/921850	285.75	469.9	142.875	138.928	1	333.5	429	1.6	3.2	0.29	2.31	3.44	2.26	97.5
EE921126D/921875	285.75	476.25	142.875	138.928	1	333.5	429	1.6	3.2	0.29	2.31	3.44	2.26	103
M255449D/M255410	288.925	406.4	144.463	144.463	1	310	379	3.2	3.2	0.34	2	2.98	1.96	58.1
M255449TD/M255410	288.925	406.4	144.463	144.463	2	315.6	373.9	3.2	3.2	0.34	2	2.97	1.95	61.4
EE330116D/330166	292.1	422.275	130.175	130.175	1	321	387.9	6.4	3.2	0.32	2.11	3.14	2.06	59.9
EE790117D/790221	292.1	558.8	285.75	285.75	1	359.8	487.9	3.2	6.4	0.4	1.71	2.54	1.67	318
LM757043TD/LM757010	295.275	406.4	203.2	203.2	2	319.5	376.1	1.6	3.2	0.44	1.53	2.28	1.49	69.4
HM256846TD/HM256810	297.523	422.275	160.338	150.813	2	322.1	388.3	3.2	3.2	0.34	2	2.98	1.96	68.5
EE329118D/329172	298.45	438.048	131.763	131.763	1	336.6	399.7	3.2	3.2	0.33	2.04	3.04	2	68.9
EE291176D/291749	298.45	444.5	107.95	111.125	1	344	403.5	7.9	3.2	0.38	1.79	2.66	1.75	61.1
EE291176D/291750	298.45	444.5	107.95	111.125	1	344	403.5	7.9	1.6	0.38	1.79	2.66	1.75	61.2
EE129119D/129172	299.974	438.048	134.938	133.35	1	338.1	400.5	3.2	4.8	0.4	1.68	2.5	1.64	68.7
HM256849D/HM256810	300.038	422.275	150.812	150.812	1	318	395	3.2	3.2	0.34	2	3	2	66.7
HM256849DA/HM256810	300.038	422.275	150.812	150.812	1	318	395	6.4	3.2	0.34	2	3	2	66.7
HH2568249D/HH2568210	303.213	495.3	263.525	263.525	1	341.5	441.7	3.2	6.4	0.33	2	3	2	212
HH258249TD/HH258210	303.213	495.3	263.525	263.525	2	341.5	441.7	3.2	6.4	0.33	2.03	3.02	1.98	207
M757447D/M757410	304.648	438.048	128.588	138.113	1	332.3	403.8	3.2	4.8	0.47	1.44	2.15	1.41	64.8
EE329117D/329172	304.648	438.048	131.762	131.762	1	324	408	3.2	3.2	0.33	2	3	2	66.3
EE129121D/129172	304.648	438.048	134.938	133.35	1	325	407	3.2	4.8	0.42	1.6	2.4	1.6	65.6
M757447DE/M757410	304.648	438.048	134.938	138.113	1	330.6	403.8	3.2	4.8	0.47	1.44	2.15	1.41	65.5
M257149D/M257110	304.8	419.1	130.175	130.175	1	322	392	1.6	6.4	0.33	2.03	3.02	1.98	53.1
EE111201D/111700	304.8	431.8	98.425	120.65	1	331.5	392.3	3.2	3.2	0.44	1.54	2.29	1.5	51.8
EE111201D/111725	304.8	438.15	98.425	120.65	1	331.5	392.3	3.2	3.2	0.44	1.54	2.29	1.5	55.9
EE291200D/291749	304.8	444.5	107.95	111.125	1	337	416	7.9	3.2	0.38	1.78	2.65	1.74	55.7
EE941206D/941950	304.8	495.3	134.938	137.952	1	329	455	1.5	3.2	0.4	1.7	2.5	1.7	103
EE724121D/724195	304.8	495.3	165.1	171.45	1	354.5	438.7	3.2	6.4	0.4	1.68	2.5	1.64	130
EE790119D/790221	304.8	558.8	285.75	285.75	1	341	506	3.2	6.4	0.39	1.7	2.5	1.7	307
M257248D/M257210	304.902	412.648	128.588	128.588	1	325	388	3.2	3.2	0.32	2.12	3.15	2.07	49
EE129124D/129172	304.902	438.048	212.725	196.85	1	334.8	400.5	3.2	4.8	0.4	1.68	2.5	1.64	93.5
M757449D/M757410	305	438.048	134.145	138.112	1	328	407	4	4	0.47	1.43	2.12	1.4	65.3
EE129123D/129172	305.003	438.048	134.938	133.35	1	325	407	3.3	4.8	0.42	1.6	2.4	1.6	65.4
HM858548D/HM858511	305.054	500	200	200	1	333	457	3.2	6.4	0.33	2	3	2	164

LM258649D/LM258610	317.5	422.275	128.588	128.588	1	333	399	1.5	1.5	0.33	2.1	3.1	2	49.7
HM259049D/HM259010	317.5	447.675	158.75	158.75	1	335	418	3.3	3.3	0.33	2	3	2	79.6
EE526129D/526190	327.025	482.6	147.638	152.4	1	362	438.9	1.6	3.2	0.39	1.73	2.57	1.69	94.3
EE526131D/526190	330.2	482.6	147.638	152.4	1	362	43.9	1.6	3.2	0.39	1.73	2.57	1.69	92.4
HM261049D/HM261010	333.375	469.9	166.688	166.688	1	352	440	3.3	3.3	0.33	2	3	2	91.4
HM261049TD/HM261010	333.375	469.9	166.688	166.688	2	359.8	432.9	3.2	3.2	0.33	2.02	3	1.97	92.8
HM265032TD/HM265010	333.375	523.875	185.738	185.738	2	402.5	483.6	3.2	6.4	0.33	2.03	3.02	1.98	138
EE971355D/972100	342.9	533.4	146.05	139.7	1	372	497	3.2	3.2	0.33	2	3	2	114
EE536136D/536225	342.9	571.5	163.512	163.512	1	381	529	3.2	6.4	0.33	2	3	2	172
LM761649D/LM761610	343.052	457.098	122.238	122.238	1	361	432	1.5	3.2	0.48	1.4	2.1	1.4	54
HM262746TD/HM262710	344.091	488.95	184.15	174.625	2	375.3	450	3.2	3.2	0.33	2.02	3	1.97	108
EE161362D/161850	346.075	469.9	95.25	104.775	1	384.6	440.7	1.6	6.4	0.5	1.35	2.01	1.32	50.7
EE161362D/161900	346.075	482.6	95.25	104.775	1	384.6	440.7	1.6	6.4	0.5	1.35	2.01	1.32	58.4
EE161362D/161925	346.075	488.95	95.25	104.775	1	384.6	440.7	1.6	6.4	0.5	1.35	2	1.3	62
HM262749D/HM262710	346.075	488.95	174.625	174.625	1	366	457	3.2	3.2	0.33	2	3	2	104
HM262749TD/HM262710	346.075	488.95	174.625	174.625	2	377.1	450	3.2	3.2	0.33	2.02	3	1.97	105
M262449D/M262410	347.663	469.9	138.112	138.112	1	369	443	3.2	3.2	0.33	2.03	3.02	1.98	68
M262448TD/M262410	347.663	469.9	228.6	228.601	2	373.7	436.7	3.2	3.2	0.33	2.03	3.02	1.98	93.7
L163149D/L163110	355.6	444.5	114.3	112.713	1	369	423	1.6	3.2	0.31	2.2	3.3	2.1	41
LM263149D/LM263110	355.6	457.2	120.65	120.65	1	370	435	1.6	3.2	0.32	2.1	3.2	2.1	50.5
LM763449D/LM763410	355.6	482.6	128.588	133.35	1	375	453	1.6	3.2	0.47	1.43	2.14	1.4	67.4
M263349D/M263310	355.6	488.95	153.988	153.988	1	374	459	1.6	3.2	0.33	2.03	3.02	1.98	85.4
EE231401D/231975	355.6	501.65	111.125	127	1	382	472	1.6	3.2	0.44	1.53	2.28	1.5	75.3
EE231401D/232025	355.6	514.35	111.125	127	1	404.5	465.8	3.2	3.2	0.44	1.53	2.28	1.5	85.3
EE161403D/161850	356.387	469.9	101.6	104.75	1	382.7	440.7	1.6	6.4	0.5	1.35	2.01	1.32	47.3
EE161403D/161900	356.387	482.6	101.6	104.75	1	382.7	440.7	1.6	6.4	0.5	1.35	2.01	1.32	55
EE161403D/161925	356.387	488.95	101.6	104.75	1	382.7	440.7	1.6	6.4	0.5	1.35	2.01	1.32	58.9
HM265049D/HM265010	368.3	523.875	185.738	185.738	1	390	487	3.3	6.4	0.33	2	3	2	135
HM265049TD/HM265010	368.3	523.875	185.738	185.738	1	402.5	483.6	3.2	6.4	0.33	2.03	3.02	1.98	110
EE181454D/182350	368.3	596.9	158.75	165.1	1	470.6	535	6.4	6.4	0.4	1.7	2.5	1.6	188
EE321146D/321240	368.3	609.6	279.4	254	1	415.2	545	3.2	6.4	0.36	1.9	2.83	1.86	303
EE321146D/321245	368.3	622.3	279.4	254	1	415.2	545	3.2	6.4	0.36	1.9	2.83	1.86	327
HM266445D/HM266410	374.574	546.1	193.675	193.675	1	402	508	3.2	6.4	0.33	2	3	2	159
HM266446TD/HM266410	381.264	546.1	193.675	206.375	2	415.3	505	3.2	6.4	0.33	2.03	3.02	1.98	159
HM266449D/HM266410	384.175	546.1	193.675	193.675	1	407	508	3.3	6.4	0.33	2	3	2	150
HM266449TD/HM266410	384.175	546.1	193.675	193.675	2	417.7	505	3.2	6.4	0.33	2.03	3.02	1.98	155
EE234157D/234215	393.7	546.1	120.65	141.288	1	419	507	3.2	6.4	0.48	1.4	2.1	1.4	92.2
LM767745D/LM767710	393.7	546.1	138.113	138.113	1	418	510	1.6	6.4	0.48	1.42	2.11	1.38	97.4
EE234157D/234220	393.7	558.8	120.65	119.063	1	436.4	505	3.2	6.4	0.48	1.42	2.11	1.39	97.2
EE911576D/912400	400.05	609.6	142.875	157.163	1	462	555	3.6	6.4	0.38	1.76	2.62	1.72	161

EE234161D/234215	406.4	546.1	120.65	141.288	1	423	507	1.6	6.4	0.48	1.4	2.1	1.4	84.7
LM767749D/LM767710	406.4	546.1	138.113	138.113	1	434.5	510	1.6	6.4	0.48	1.42	2.11	1.39	90.5
EE234161D/234220	406.4	558.8	120.65	119.063	1	436.4	50	1.6	6.4	0.48	1.42	2.11	1.39	89.8
EE285161D/285226	406.4	574.675	114.3	130.967	1	446.1	520	3.2	3.2	0.5	1.35	2.01	1.32	105
M268743TD/M268710	406.4	590.55	209.55	209.55	2	455.6	545	3.2	6.4	0.33	2.03	3.02	1.98	199
EE911603D/912400	406.4	609.6	149.225	157.163	1	460.7	555	3.6	6.4	0.38	1.76	2.62	1.72	158
EE261602D/262450	406.4	622.3	155.575	152.705	1	467.7	570	3.6	6.7	0.38	1.76	2.62	1.72	169
EE261602D/262500	406.4	635	155.575	152.705	1	467.7	570	3.6	6.7	0.38	1.76	2.62	1.72	184
EE623161D/623265	406.476	673.049	195.262	195.262	1	448	620	3.2	6.4	0.36	1.9	2.8	1.8	292
M667947D/M667911	409.575	546.1	161.925	161.925	1	431	510	1.6	6.4	0.43	1.6	2.3	1.6	110
M268746TD/M268710	413.677	590.55	225.425	209.55	2	452.6	545	3.2	6.4	0.33	2.03	3.02	1.98	195
M268749D/M268710	415.925	590.55	209.55	209.55	1	444	549	3.2	6.4	0.33	2.03	3.02	1.98	181
M268749TD/M268710	415.925	590.55	209.55	209.55	2	455.6	545	3.2	6.4	0.33	2.03	3.02	1.98	189
EE261650D/262450	419.1	622.3	155.575	152.705	1	452	580	3.6	6.7	0.38	1.8	2.6	1.7	168
EE261650D/262500	419.1	635	155.575	152.705	1	467.7	570	3.6	6.7	0.38	1.76	2.62	1.72	174
EE323166D/323290	419.227	736.448	406.4	406.4	1	463	662	6.4	6.4	0.37	1.8	2.7	1.8	775
EE328167D/328269	425.45	685.698	253.873	254	1	482.4	620	6.4	6.4	0.4	1.68	2.5	1.64	367
M270737TD/M270710	426.89	635	231.775	223.838	2	489	585	3.2	6.4	0.33	2.03	3.02	1.98	261
EE239171D/239225	431.8	571.5	130.175	133.35	1	450	542	1.6	3.2	0.38	1.8	2.6	1.7	92
LM869449D/LM869410	431.8	571.5	133.35	136.526	1	453	537	1.6	3.2	0.55	1.24	1.84	1.21	92.1
LM769349D/LM769310	431.8	571.5	161.925	161.925	1	453	534	6.4	3.2	0.44	1.52	2.26	1.49	112
EE931170D/931250	431.8	635	173.038	173.038	1	468	595	6.4	6.4	0.32	2.1	3.1	2.1	193
EE328172D/328269	431.902	685.698	253.873	254	1	482.4	620	6.4	6.4	0.4	1.68	2.5	1.64	359
EE736173D/736238	432.003	609.524	152.4	152.4	1	472.1	565	3.6	6.4	0.35	1.95	2.9	1.91	135
EE736173D/736237	432.003	609.524	152.4	161.925	1	472.1	560	3.6	6.4	0.35	1.95	2.9	1.91	139
M270746TD/M270710	442.674	635	239.713	23.838	2	487.5	585	3.2	6.4	0.33	2.03	3.02	1.98	244
M270747TD/M270710	446.204	635	223.838	231.775	2	489	585	3.2	6.4	0.33	2.03	3.02	1.98	237
M270749D/M270710	447.675	635	223.838	223.838	1	475	591	3.2	6.4	0.33	2	3	2	232
M270749TD/M270710	447.675	635	223.838	223.838	2	490.5	585	3.2	6.4	0.33	2.03	3.02	1.98	234
EE671798D/672873	457.073	730.148	196.85	203.2	1	515	660	1.6	6.4	0.39	1.72	2.57	1.69	315
EE925179D/925295	457.073	749.3	412.75	419.1	1	497	686	3.2	6.4	0.31	2.2	3.3	2.2	760
EE244181D/244235	457.2	596.9	130.175	133.35	1	475	565	1.6	3.2	0.4	1.7	2.5	1.6	96.9
L770849D/L770810	457.2	596.9	133.35	136.525	1	476	566	1.6	3.2	0.47	1.4	2.1	1.4	98.9
EE737179D/737260	457.2	660.4	155.575	155.572	1	500	600	3.2	6.4	0.37	1.8	2.69	1.76	175
EE671802D/672873	457.403	730.148	196.85	203.2	1	515	660	1.6	6.4	0.39	1.72	2.57	1.69	315
M272746TD/M272710	477.441	679.45	257.175	238.125	2	520	630	3.2	6.4	0.33	2.03	3.02	1.98	285
M272749TD/M272710	479.425	679.45	238.125	238.125	2	520	630	3.2	6.4	0.33	2.03	3.02	1.98	277
M272749D/M272710	479.425	679.45	238.125	238.125	1	506	635	3.3	6.4	0.34	2	3	1.9	290
M272647D/M272610	482.6	647.7	201.612	201.612	1	510	609	3.2	6.4	0.33	2.03	3.02	1.98	185
EE243193D/243250	489.026	634.873	152.4	152.4	1	525	595	3.2	3.2	0.35	1.9	2.9	1.8	130

LM772749D/LM772710	489.026	634.873	153.988	153.988	1	508	602	3.2	3.2	0.47	1.4	2.1	1.4	125
M274149D/M274110	501.65	711.2	250.825	250.825	1	534	663	3.2	6.4	0.33	2.03	3.02	1.98	314
M274149TD/M274110	501.65	711.2	250.825	250.825	2	545	655	3.2	6.4	0.33	2.03	3.02	1.98	323
EE426198D/426330	505.181	838.2	266.7	266.7	1	580	755	6.4	9.5	0.48	1.41	2.1	1.38	590
EE531201D/531300	508	762	219.075	219.075	1	551	710	6.4	6.4	0.38	1.8	2.6	1.7	370
EE426201D/426330	508	838.2	266.7	266.7	1	580	755	6.4	9.5	0.48	1.41	2.1	1.38	585
EE426203D/426330	509.588	838.2	266.7	266.7	1	580	755	6.4	9.5	0.48	1.41	2.1	1.38	582
LM274449D/LM274410	514.35	673.1	203.2	203.2	1	540	636	3.2	6.4	0.33	2.03	3.02	1.98	189
M275346TD/M275310	517.657	736.6	277.813	258.763	2	560	680	3.2	6.4	0.33	2.03	3.02	1.98	369
M275349D/M275310	519.113	736.6	258.763	258.763	1	550	687	3.2	6.4	0.33	2	3	2	363
M275349TD/M275310	519.113	736.6	258.763	258.763	2	560	680	3.2	6.4	0.33	2.03	3.02	1.98	361
M276446TD/M276410	534.723	761.873	288.925	269.875	2	570	700	3.2	6.4	0.33	2.03	3.02	1.98	409
M276449D/M276410	536.575	761.873	269.875	269.875	1	567	710	3.2	6.4	0.33	2	3	2	409
EE522126D/523087	539.75	784.225	161.925	165.1	1	595	715	3.2	6.4	0.48	1.42	2.11	1.39	261
EE843220D/843290	558.8	736.6	155.575	155.575	1	585	699	3.2	6.4	0.34	1.98	2.94	1.93	177
LM377449D/LM377410	558.8	736.6	196.85	196.85	1	583	696	3.2	6.4	0.35	1.9	2.9	1.9	237
M278749D/M278710	571.5	812.8	285.75	285.75	1	603	759	3.2	6.4	0.33	2	3	2	502
LM778549D/LM778510G2	584.2	762	188.912	193.675	1	615	717	3.2	6.4	0.47	1.43	2.14	1.4	223
M280049D/M280010	595.313	844.55	296.863	296.863	1	630	790	3.2	6.4	0.33	2	3	2	558
EE649241D/649310	609.6	787.4	171.45	171.45	1	634	749	3.2	6.4	0.37	1.8	2.7	1.8	216
EE743241D/743320	609.6	812.8	190.5	190	1	660	755	3.2	6.4	0.33	2.06	3.06	2.01	271
M280349D/M280310G2	609.6	863.6	317.5	317.5	1	648	807	3.2	6.4	0.33	2.03	3.02	1.98	585
M281049D/M281010	635	901.7	317.5	317.5	1	675	843	3.2	6.4	0.33	2.03	3.02	1.98	641
M281649D/M281610G2	657.225	933.45	328.612	328.612	1	699	870	3.2	6.4	0.33	2.03	3.02	1.98	711
L281149D/L281110G2	660.4	812.8	176.212	176.212	1	684	789	3.2	6.4	0.33	2	3	2	195
LM281849D/LM281810G2	679.45	901.7	265.112	265.112	1	714	852	3.2	6.4	0.33	2.03	3.02	1.98	459
EE655271D/655345G2	685.8	876.3	168.275	171.45	1	717	831	3.2	6.4	0.42	1.61	2.4	1.58	247
LM282549D/LM282510	708.25	930.275	273.05	273.05	1	741	879	3.2	6.4	0.33	2.03	3.02	1.98	490
EE755281D/755360	711.2	914.4	149.225	149.225	1	744	873	3.2	6.4	0.38	1.77	2.64	1.73	243
M383240D/M383210	714.375	1016	339.725	339.725	1	756	953	3.2	6.4	0.35	1.9	2.9	1.9	924
M283449D/M283410	730.25	1035.05	365.125	365.125	1	790	960	3.2	6.4	0.33	2.03	3.02	1.98	1000
LM283649D/LM283610	749.3	990.6	293	293	1	786	936	3.2	6.4	0.33	2.03	3.02	1.98	606
M284148D/M284111	762	1066.8	352.425	365.125	1	819	996	3.2	6.4	0.33	2.03	3.02	1.98	968
M284249D/M284210	762	1079.5	381	381	1	810	1005	4.8	12.7	0.33	2.03	3.02	1.98	1097
M285848D/M285810	825.5	1168.4	409.575	409.575	1	890	1090	4.8	12.7	0.33	2.03	3.02	1.98	1440
LM286249D/LM286210	863.6	1130.3	323.85	323.85	1	901	1067	4.8	12.7	0.33	2	3	2	915
EE547341D/547480	863.6	1219.2	425.45	438.15	1	918	1135	4.8	12.7	0.33	2.03	3.02	1.98	1552
634356D/634510	901.7	1295.4	438.15	450.85	1	936	1190	4.8	12.7	0.35	1.9	2.9	1.8	2000
LM3287649D/LM287610	938.212	1270	400.05	400.05	1	990	1190	4.8	12.7	0.33	2.03	3.02	1.98	1444
LM287849D/LM287810	939.8	1333.5	463.55	463.55	1	996	1246	4.8	12.7	0.33	2	3	2	2170

Single Row Tapered Roller Bearings (Inch Series)



Bearing NO.	Boundary dimensions(mm)							Basic load ratings(kN)		Limiting speed(rpm)		Applicati on point	Abutment and fillet dimensions(mm)								Value			Weight(kg)
	d	D	T	B	C	r ₁ , 2min	r ₃ , 4min	Cr	Cor	Grease	Oil		a	d _a max	d _b min	D _a max	D _b min	r _a max	r _b max	e	Y	Y ₀	Refer	
HH221440/HH221410	95.25	190.5	57.15	57.531	46.038	7.9	3.2	440	602	2300	3400	42.5	115	119	168	179	7.9	3.2	0.33	1.79	0.99	7.37		
42381/42584	96.838	148.43	28.575	28.971	21.433	3.6	3	143	225	2300	3400	31.9	108	108	133	140	3.6	3	0.49	1.22	0.67	1.64		
90381/90744	96.838	188.913	50.8	46.038	31.75	3.6	3.2	276	357	2300	3400	63	108	115	161	179	3.6	3.2	0.87	0.69	0.38	5.68		
52387/52637	98.425	161.925	36.512	36.116	26.195	3.6	3.2	180	288	2200	3300	36	110	114	142	151	3.6	3.2	0.47	1.26	0.69	2.74		
685/672	98.425	168.275	41.275	41.275	30.162	3.6	3.2	224	349	2200	3300	38.6	110	115	147	156	3.6	3.2	0.47	1.28	0.7	3.51		
779/772	98.425	180.975	47.625	48.006	38.1	3.6	3.2	288	438	2100	3200	39.5	110	120	156	166	3.6	3.2	0.39	1.56	0.86	5.2		
HH421246/HH421210	98.425	184.15	63.5	63.5	52.388	6.4	3.2	445	687	2100	3200	46.2	115	117	161	174	6.4	3.2	0.37	1.6	0.88	7.45		
866/854	98.425	190.5	57.15	57.531	44.45	3.6	3.2	353	504	2100	3200	40	110	120	162	172	3.6	3.2	0.33	1.79	0.99	6.99		
HH221442/HH221410	98.425	190.5	57.15	57.531	46.038	3.6	3.2	440	602	2100	3200	42.5	110	119	168	179	3.6	3.2	0.33	1.79	0.99	7.18		
HM321245/HM321210	99.212	171.45	49.213	49.213	38.1	3.6	3.2	295	434	2200	3200	36.6	110	116	153	162	3.6	3.2	0.34	1.75	0.96	4.45		
LM720646/LM720611	99.975	144.975	25.4	25.4	19.05	1.6	1.6	125	216	2200	3200	30.1	107	113	134	140	1.6	1.6	0.46	1.31	0.72	1.34		
HM220149/HM220110	99.975	156.975	42	42	34	7.9	3.6	245	396	2200	3200	32.4	112	120	143	150	7.9	3.6	0.33	1.8	0.99	2.9		
944A/933	99.975	210	67	66.675	53.975	3.6	3.2	450	674	2200	3200	47.9	111	135	181	193	3.6	3.2	0.33	1.84	1.01	10.9		
HH224334/HH224310	99.975	212.725	66.675	66.675	53.975	3.6	3.2	513	699	2200	3200	47.6	111	134	190	201	3.6	3.2	0.33	1.84	1.01	10.9		
HH221447/HH221410	99.982	190.5	57.15	57.531	46.038	6.4	3.2	440	602	2200	3200	42.5	117	119	168	179	6.4	3.2	0.33	1.79	0.99	7.06		
JM720249/JM720210	100	155	36	35	28	3	2.5	191	325	1900	2800	36.8	118	108	140	150	3	2.5	0.47	1.3	0.7	2.45		
JHM720249/JHM720210	100	160	41	40	32	3	2.5	239	380	1900	2800	38.2	107	119	144	155	3	2.5	0.47	1.3	0.7	3.07		
52394X/52637	100	161.925	36.513	36.116	26.195	3.6	3.2	180	288	1900	2800	36	111	114	142	151	3.6	3.2	0.47	1.26	0.69	2.67		
783/772A	100	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1800	2700	39.4	111	120	156	166	3.6	3.2	0.39	1.56	0.86	4.57		
783/772	100	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2700	39.1	111	123	160	172	3.5	3.3	0.39	1.6	0.86	4.96		
863X/853	100	189.997	57	57.531	48	6	3	353	504	1700	2600	39.8	116	120	163	174	6	3	0.33	1.79	0.99	6.94		
863X/854	100	190.5	57.15	57.531	44.45	6	3.3	355	500	1700	2600	41.8	111	126	168	181	6	3.3	0.33	1.8	0.99	6.81		
98394X/98788	100	200	52.761	49.213	34.925	3.6	3.2	347	471	1700	2600	54.7	111	123	171	185	3.6	3.2	0.63	0.95	0.52	6.91		

HH224334/HH224310	100	212.725	66.675	66.675	53.975	3.5	3.3	570	810	1700	2600	47.3	118	133	191	206	3.5	3.3	0.33	1.8	1	11.4
EE215039/215096	100	250.825	76.2	73.025	50.8	6.4	3.2	442	575	1700	2600	72.4	117	140	201	225	6.4	3.2	0.7	0.85	0.47	17.3
52393/52618	100.012	157.162	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	108	119	142	153	3.5	3.3	0.47	1.3	0.69	2.51
52393/52638	100.012	161.925	39.688	36.116	29.37	3.5	3.3	191	310	1900	2800	39.2	108	119	143	155	3.5	3.3	0.47	1.3	0.69	2.92
789/772A	100.813	174.625	47.625	47.625	38.1	3.6	3.2	288	438	1900	2800	39.4	113	120	156	166	3.6	3.2	0.39	1.56	0.86	4.51
L420449/L420410	101.6	136.525	21.433	21.433	16.67	1.6	1.6	86	162	1900	2800	24.3	110	111	126	130	1.6	1.6	0.37	1.63	0.9	0.852
L521945R/L521910	101.6	146.05	21.433	21.433	16.67	1.6	1.6	86.4	167	1900	2800	26.2	110	119	134	139	1.6	1.6	0.39	1.53	0.84	1.17
LM720648/LM720610	101.6	146.05	25.4	25.4	19.05	1.6	1.6	125	216	1900	2800	30.1	110	113	134	140	1.6	1.6	0.46	1.31	0.72	1.32
52400/52618	101.6	157.162	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	109	120	142	153	3.5	3.3	0.47	1.3	0.69	2.45
52400/52637	101.6	161.925	36.512	36.116	26.195	3.5	3.3	191	310	1900	2800	36.1	109	120	144	155	3.5	3.3	0.47	1.3	0.69	2.69
687/672A	101.6	168.275	41.275	41.275	34.925	3.5	3.3	223	345	1900	2800	38.3	109	121	149	162	3.5	3.3	0.47	1.3	0.7	3.49
687/672	101.6	168.275	41.275	41.275	30.162	3.5	3.3	223	345	1900	2800	38.3	109	121	149	161	3.5	3.3	0.47	1.3	0.7	3.39
780/772A	101.6	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1900	2800	39.4	114	120	156	166	3.6	3.2	0.39	1.56	0.86	4.47
781X/773	101.6	180	48	50.8	40	3.6	3	288	438	1800	2600	39.8	114	120	156	167	3.6	3	0.39	1.56	0.86	5.05
780/772	101.6	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2600	39.1	111	124	160	172	3.5	3.3	0.39	1.6	0.86	4.86
861/853	101.6	189.997	57	57.531	48	7.9	3	353	504	1800	2600	39.8	122	120	163	174	7.9	3	0.33	1.79	0.99	6.81
HH221449/HH221410	101.6	190.5	57.15	57.531	46.038	8	3.3	390	520	1800	2600	42.3	113	131	170	183	8	3.3	0.33	1.8	0.99	6.79
861/854	101.6	190.5	57.15	57.531	44.45	8	3.3	355	500	1800	2600	41.8	112	130	168	181	8	3.3	0.33	1.8	0.99	6.68
98400/98788	101.6	200	52.761	49.212	34.925	3.5	3.3	315	425	1800	2600	54.4	114	132	174	191	3.5	3.3	0.63	0.95	0.52	6.81
HH221449/HH221416	101.6	200.025	61.912	57.531	50.8	8	3.3	390	520	1800	2600	47	113	131	174	188	8	3.3	0.33	1.8	0.99	8.29
HH224335/HH224310	101.6	212.725	66.675	66.675	53.975	7	3.3	570	810	950	1400	47.3	119	137	191	206	7	3.3	0.33	1.8	1	11.2
941/932	101.6	212.725	66.675	66.675	53.975	7	3.3	475	700	950	1400	46.9	118	136	187	201	7	3.3	0.33	1.8	1	11.2
H924033/H924010	101.6	214.313	55.563	52.388	39.688	3.6	3.2	404	578	950	1400	62.3	134	114	185	203	3.6	3.2	0.67	0.89	0.49	9.21
EE215040/215098	101.6	250.825	76.2	73.025	50.8	6.4	6.4	485	635	1500	2000	72.8	122	146	207	236	6.4	6.4	0.7	0.86	0.47	17
HH923649/HH923610	101.6	250.825	76.2	73.025	50.8	6.4	6.4	530	645	1500	2000	73.3	118	145	210	238	6.4	6.4	0.7	0.86	0.47	16.8
HH923649/HH923611	101.6	250.825	76.2	73.025	50.8	6.4	3.3	530	645	1500	2000	73.3	118	145	213	238	6.4	3.3	0.7	0.86	0.47	16.8
689/672	103.188	168.275	41.275	41.275	30.163	3.6	3.2	224	349	1500	2000	38.7	115	115	147	156	3.6	3.2	0.47	1.28	0.7	3.27
782/772A	104.775	174.625	47.625	48.006	38.1	3.6	3.2	288	438	1800	2600	39.4	117	120	156	166	3.6	3.2	0.39	1.56	0.86	4.28
786/772A	104.775	174.625	47.625	48.006	38.1	6.4	3.2	288	438	1800	2600	39.4	120	123	156	166	6.4	3.2	0.39	1.56	0.86	4.27
787/772A	104.775	174.625	47.625	48.006	38.1	7.1	3.2	288	438	1800	2600	39.4	120	124	156	166	7.1	3.2	0.39	1.56	0.86	4.26
782/772	104.775	180.975	47.625	48.006	38.1	3.5	3.3	258	375	1800	2600	39.1	113	125	160	172	3.5	3.3	0.39	1.6	0.86	4.67
786/772	104.775	180.975	47.625	48.006	38.1	6.4	3.3	258	375	1800	2600	39.1	113	128	160	172	6.4	3.3	0.39	1.6	0.86	4.65
787/772	104.775	180.975	47.625	48.006	38.1	7	3.3	258	375	1800	2600	39.1	113	129	160	172	7	3.3	0.39	1.6	0.86	4.65
71412/71750	104.775	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	119	131	171	183	3.5	3.3	0.42	1.4	0.79	5.71
56413/56650	104.775	165.1	36.513	36.513	26.988	3.6	3.2	184	300	1900	2800	38.5	117	120	148	157	3.6	3.2	0.5	1.21	0.66	2.71
64413/64700	104.775	177.8	41.275	41.275	30.162	3.6	3.2	227	365	1900	2800	42.8	117	127	160	170	3.6	3.2	0.52	1.16	0.64	3.99
56418/56650	106.362	165.1	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	114	126	148	160	3.5	3.3	0.5	1.2	0.66	2.73
56418/56662	106.362	168.275	36.513	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	114	126	150	161	3.5	3.3	0.5	1.2	0.66	2.91
L521949R/L521910	107.95	146.05	21.432	21.432	16.67	1.6	1.6	86.4	167	1900	2800	26.2	116	119	134	139	1.6	1.6	0.39	1.53	0.84	0.99
37425/37625	107.95	158.75	23.02	21.438	15.875	3.5	3.3	102	165	1900	2800	37	115	124	143	152	3.5	3.3	0.61	0.99	0.54	1.37
LM522546/LM522510	107.95	159.987	34.925	34.925	26.988	3.5	3.3	164	315	1900	2800	33.7	117	126	145	154	3.5	3.3	0.4	1.5	0.82	2.43
48190/48120	107.95	161.925	34.925	34.925	26.988	3.5	3.3	164	280	1900	2800	38.7	115	126	145	157	3.5	3.3	0.51	1.2	0.65	2.42
56425/56650	107.95	165.1	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	115	127	148	160	3.5	3.3	0.5	1.2	0.66	2.66
56425/56662	107.95	168.275	36.512	36.512	26.988	3.5	3.3	195	320	1900	2800	38.6	115	127	150	161	3.5	3.3	0.5	1.2	0.66	2.83
67425/67675	107.95	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	120	124	153	161	3.6	3.2	0.47	1.27	0.7	2.63
71425/71750	107.95	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40.1	121	133	171	183	3.5	3.3	0.42	1.4	0.79	5.5
71425/71753	107.95	191.975	47.625	49.213	34.925	3.6	3.2	303	483	1700	2400	40.9	120	131	168	177	3.6	3.2	0.42	1.44	0.79	5.58
935/930	107.95	206.375	66.675	66.675	53.975	13.5	3.2	450	674	1700	2400	47.6	135	140	181	193	13.5	3.2	0.33	1.84	1.01	9.62
936/930	107.95	206.375	66.675	66.675	53.975	7.9	3.2	450	674	1700	2400	47.6	129	135	181	193	7.9	3.2	0.33	1.84	1.01	9.69
HH224340/HH224310	107.95	212.725	66.675	66.675	53.975	8	3.3	570	810	1700	2400	47.3	122	142	191	206	8	3.3	0.33	1.8	1	10.6
936/932	107.95	212.725	66.675	66.675	53.975	8	3.3	475	700	1700	2400	46.9	121	140	187	201	8	3.3	0.33	1.8	1	10.7
37431/37625	109.538	158.75	23.02	21.438	15.875	6.4	6.4	104	169	1900	2800	36.5	120	122	142	148	6.4	6.4	0.61	0.99	0.54	1.33
937XA/932	109.9	212.725	66.675	74	53.975	SP	3.2	450	674	1800	2600	47.6	115	135	181	193	SP	3.2	0.33	1.84	1.01	10.7
71432/71750	109.952	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	122	134	171	183	3.5	3.3	0.42	1.4	0.79	5.37

71432/71788	109.952	199.975	50	49.213	36.8	3.6	4	303	483	1800	2600	43.3	122	131	167	177	3.6	4	0.42	1.44	0.79	6.3
64432/64700	109.974	177.8	41.275	41.275	30.162	3.5	3.3	251	415	1800	2600	42	123	126	164	171	3	3	0.52	1.15	0.6	3.7
64432/64708	109.974	180	41.275	41.275	30.162	3.5	3.3	251	415	1800	2600	42	123	126	166	171	3	3	0.52	1.15	0.6	3.9
H924043/H924010	109.985	214.313	55.563	52.388	39.688	3.6	3.2	404	578	1800	2600	62.3	122	134	185	203	3.6	3.2	0.67	0.89	0.49	8.65
LM522548/LM522510	109.985	159.987	34.925	34.925	26.988	8	3.3	164	315	1900	2800	33.7	118	132	145	154	8	3.3	0.4	1.5	0.82	2.31
LM522549/LM522510	109.985	159.987	34.925	34.925	26.988	3.5	3.3	164	315	1900	2800	33.7	118	127	145	154	3.5	3.3	0.4	1.5	0.82	2.33
LM522549/LM522518	109.985	164.737	37.313	34.925	32.131	3.6	2.4	184	319	1800	2600	35.3	121	122	146	155	3.6	2.4	0.4	1.5	0.82	2.62
64433/64700	109.992	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	119	132	160	173	3.5	3.3	0.52	1.2	0.64	3.75
64433/64701X	109.992	178	41.275	41.275	30.163	3.6	3	227	365	1800	2600	42.8	122	127	160	170	3.6	3	0.52	1.16	0.64	3.73
64433/64708	109.992	180	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	123	126	166	171	3	3	0.52	1.15	0.6	3.9
JM822049/JM822010	110	165	35	35	26.5	3	2.5	195	320	1800	2600	38.1	116	127	149	160	3	2.5	0.5	1.2	0.66	2.48
JHM522649/JHM522610	110	180	47	46	38	3	2.5	310	490	1800	2600	40.9	118	131	162	174	3	2.5	0.41	1.5	0.81	4.62
71433X/71736	110	186.975	45	49.213	35.001	3.6	5.2	303	483	1800	2600	38.3	122	131	169	179	3.6	5.2	0.42	1.44	0.79	4.92
942/930	110	206.35	66.675	66.675	53.975	6.4	3.2	450	674	1800	2600	47.6	128	135	181	193	6.4	3.2	0.33	1.84	1.01	9.53
942/932	110	212.725	66.675	66.675	53.975	6.4	3.2	450	674	1800	2600	47.6	128	135	181	193	6.4	3.2	0.33	1.84	1.01	10.4
67434/67675	110.333	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	123	124	153	161	3.6	3.2	0.47	1.27	0.7	2.53
67437/67675	111.125	171.45	34	30.163	25.268	3.6	3.2	177	254	1800	2600	39.3	123	124	153	161	3.6	3.2	0.47	1.27	0.7	2.5
64437/64713	111.125	180.975	41.275	41.275	30.163	3.6	3.2	227	365	1800	2600	42.8	123	127	160	170	3.6	3.2	0.52	1.16	0.64	3.86
71437/71736	111.125	186.975	45	49.212	35.001	3.6	3.2	303	483	1800	2600	38.3	123	131	169	179	3.6	5.2	0.42	1.44	0.79	4.85
71437/71750	111.125	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1800	2600	40.1	122	135	171	183	3.5	3.3	0.42	1.4	0.79	5.29
H924045/H924010	111.125	214.312	55.562	52.388	39.688	3.5	3.3	355	490	1800	2600	62.4	124	143	187	206	3.5	3.3	0.67	0.89	0.49	8.32
947/930	111.917	206.375	66.675	66.675	53.975	13.5	3.2	450	674	1800	2600	47.6	135	144	181	193	13.5	3.2	0.33	1.84	1.01	9.26
L623149/L623110	114.3	152.4	21.433	21.433	16.67	1.5	1.5	89.5	178	1800	2600	27.4	121	127	142	148	1.5	1.5	0.41	1.5	0.8	1.07
L623149/L623114	114.3	155.575	21.433	21.433	21.433	1.6	1.6	96.4	197	1800	2600	27.7	123	125	142	148.11.6		0.41	1.45	0.8	1.24	
64450/64700	114.3	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	122	135	160	173	3.5	3.3	0.52	1.2	0.64	3.5
64450/64701X	114.3	178	41.275	41.275	30.163	3.6	3	227	365	1800	2600	42.8	127	127	160	170	3.6	3	0.52	1.16	0.64	3.49
68450/68709	114.3	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	127	131	161	169	3.6	0.8	0.5	1.21	0.66	2.87
68450A/68709	114.3	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	127	131	161	169	3.6	0.8	0.5	1.21	0.66	2.87
64450/64708	114.3	180	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	122	135	166	171	3.5	3.3	0.52	1.2	0.64	3.8
68450/68709	114.3	180	34.925	31.75	25.4	3.5	0.8	174	254	1800	2600	40	124	134	165	173	3.5	0.8	0.5	1.2	0.66	2.95
68450/68712	114.3	180.975	34.925	31.75	25.4	3.5	3.3	174	254	1800	2600	40	124	134	163	174	3.5	3.3	0.5	1.2	0.66	2.93
71450/71736	114.3	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	127	131	169	179	3.6	5.2	0.42	1.44	0.79	4.64
71451/71736	114.3	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	127	131	169	179	3.6	5.2	0.42	1.44	0.79	4.64
71450/71750	114.3	190.5	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40.1	124	135	171	183	3.5	3.3	0.42	1.4	0.79	5.07
71450/71753	114.3	192	47.625	49.212	34.925	3.5	3.3	296	465	1700	2400	40	124	136	178	178	3	3	0.42	1.4	0.79	5.4
938/930	114.3	206.375	66.675	66.675	53.975	7.1	3.2	450	674	1700	2400	47.6	134	135	181	193	7.1	3.2	0.33	1.84	1.01	9.13
HH224346/HH224310	114.3	212.725	66.675	66.675	53.975	7	3.3	570	810	1700	2400	47.3	125	144	191	206	7	3.3	0.33	1.8	1	10.1
938/932	114.3	212.725	66.675	66.675	53.975	7	3.3	475	700	1700	2400	46.9	124	142	187	201	7	3.3	0.33	1.8	1	10.1
HH224346/HH224310	114.3	212.725	66.675	66.675	53.975	7	3.3	512	765	1700	2400	47	132	136	201	202	6	3	0.33	1.8	1	10.5
HM926740/HM926710	114.3	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1300	1800	67.7	133	152	201	223	3.5	3.3	0.74	0.81	0.45	9.52
97450/97900	114.3	228.6	53.975	49.428	38.1	3.5	3.3	330	475	1300	1800	67.5	131	151	198	219	3.5	3.3	0.74	0.82	0.45	9.52
HH926744/HH926710	114.3	273.05	82.55	82.55	53.975	6.4	6.4	685	870	1200	2000	77	134	162	234	261	6.4	6.4	0.63	0.95	0.52	21.8
EE514045/514110	114.3	279.4	82.55	82.55	53.975	6.4	6.4	660	909	1200	2000	77.8	132	159	228	252	6.4	6.4	0.65	0.92	0.51	24.2
HH926744/HH926716	114.3	279.4	82.55	82.55	53.975	6.4	6.4	685	870	1200	2000	77	134	162	237	264	6.4	6.4	0.63	0.95	0.52	23
64452/64700	114.976	177.8	41.275	41.275	30.162	3.6	3.2	227	365	1800	2600	42.8	127	127	160	170	3.6	3.2	0.52	1.16	0.64	3.43
64452A/64700	114.976	177.8	41.275	41.275	30.162	9	3.3	251	415	1800	2600	42	126	135	164	171	8	3	0.52	1.15	0.6	3.55
64452A/64708	114.976	180	41.275	41.275	30.162	9	3.3	251	415	1800	2600	42	126	135	166	171	8	3	0.52	1.15	0.6	3.75
HH224349/HH224310	114.976	212.725	66.675	66.675	53.975	7	3.3	570	810	1100	1600	47.3	125	144	191	206	7	3.3	0.33	1.8	1	10
64452/64700	115	177.8	41.275	41.275	30.162	3.5	3.3	232	375	1800	2600	42.4	122	135	160	173	3.5	3.3	0.52	1.2	0.64	3.46
71453/71736	115.087	186.975	45	49.212	35.001	3.6	5.2	303	483	1800	2600	38.3	127	131	169	179	3.6	5.2	0.42	1.		

68462/68709	117.475	179.975	34.925	31.75	25.4	3.6	0.8	171	247	1800	2600	40.7	130	131	161	169	3.6	0.8	0.5	1.21	0.66	2.73
68463/68709	117.475	179.975	34.925	31.75	25.4	7.9	0.8	171	247	1800	2600	40.7	131	138	161	169	7.9	0.8	0.5	1.21	0.66	2.7
68462/68712	117.475	180.975	34.925	31.75	25.4	3.5	3.3	174	254	1800	2600	40	125	135	163	174	3.5	3.3	0.5	1.2	0.66	2.78
71464/71736	117.975	186.975	42.376	45	35.001	5.2	5.2	303	483	1800	2600	38.4	131	133	169	179	5.2	5.2	0.42	1.44	0.79	4.2
HM124646/HM124618	119.063	195.263	53.975	57.15	44.45	1.6	3.2	365	599	1700	2500	35.9	127	136	173	181	9.5	1.6	0.26	2.27	1.25	6.22
HM124649/HM124618	119.949	195.263	53.975	57.15	44.45	3	3.2	365	599	1700	2500	35.9	131	136	173	181	9.5	3	0.26	2.27	1.25	6.14
HM125943/HM125910	119.949	204.775	55.563	60.325	45.237	3.2	3.2	412	658	1700	2500	41.1	131	142	183	192	10.3	3.2	0.3	1.97	1.08	7.48
95471/95905	119.95	230	63.5	68.715	49.213	6.4	3.2	523	826	1700	2500	49.9	138	155	204	216	14.3	6.4	0.37	1.62	0.89	12
74472/74846X	119.964	215	47.625	47.625	34.925	3.5	3.3	287	495	1700	2500	48.4	140	153	195	208	3.5	3.3	0.49	1.2	0.68	7.33
74472/74850	119.964	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1700	2500	48.4	140	153	195	209	3.5	3.3	0.49	1.2	0.68	7.42
L724348/L724310	119.975	166.688	25.4	25.4	19.05	3.2	3.2	137	229	1700	2500	32.9	130	131	154	160	3.2	3.2	0.46	1.31	0.72	1.57
M224748/M224711	119.975	172.242	35.72	36.513	27.783	3.6	1.6	208	362	1700	2500	32.1	132	133	159	166	3.6	1.6	0.33	1.8	0.99	2.58
M624649/M624610	119.975	179.975	36	36	26	3.6	1.6	212	348	1700	2500	35.6	132	134	164	171	3.6	1.6	0.41	1.45	0.8	3.02
HH228336/HH228310	119.975	254	77.788	82.55	61.913	4	6.4	717	1050	1700	2500	54	133	158	220	233	4	6.4	0.32	1.87	1.03	18.7
HH228336/HH228318	119.975	259.975	77.788	82.55	61.913	4	4	717	1050	1800	2600	54	133	158	220	233	4	4	0.32	1.87	1.03	19.9
JL724348/JL724314	120	170	25.4	25.4	19.05	3.3	3.3	130	219	1800	2600	32.9	127	135	155	164	3.3	3.3	0.46	1.3	0.72	1.67
M224748/M224710	120	174.625	35.72	36.512	27.783	3.5	1.5	212	385	1800	2600	32.2	126	137	162	169	3.5	1.5	0.33	1.8	0.99	2.76
74473X/74845	120	214.975	47.625	47.625	34.925	4	3.2	322	549	1800	2600	49.7	133	156	193	205	4	3.2	0.49	1.23	0.68	7.24
97472X/97905X	120	230	53.975	49.428	38.1	3.5	3.3	330	475	1800	2600	67.6	134	154	199	220	3.5	3.3	0.74	0.82	0.45	9.27
L624549/L624510	120.65	160.338	21.433	21.433	16.67	1.5	1.5	92.5	190	1800	2600	29.3	127	133	150	155	1.5	1.5	0.44	1.4	0.76	1.18
L724349/L724310	120.65	166.688	25.4	25.4	19.05	3.2	3.2	137	229	1800	2600	32.9	130	132	154	160	3.2	3.2	0.46	1.31	0.72	1.54
L225842/L225810	120.65	169.862	25.4	26.195	20.638	1.5	1.5	132	265	1800	2600	28	129	138	160	162	1	1	0.33	1.8	1	1.85
L724349/L724314	120.65	169.975	25.4	25.4	19.05	3.2	3.2	137	229	1800	2600	32.9	130	130	154	160	3.2	3.2	0.46	1.31	0.72	1.67
M224749/M224710	120.65	174.625	35.72	36.513	27.783	3.6	1.6	208	362	1800	2600	32.1	133	133	159	166	3.6	1.6	0.33	1.8	0.99	2.69
48282/48220	120.65	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1700	2400	34.2	132	132	167	177	3.5	3.3	0.31	2	1.1	3.69
48282/48220XX	120.65	182.562	39.688	38.1	33.338	3.6	3.2	227	429	1700	2400	34.1	133	141	166	173	3.6	3.2	0.31	1.97	1.08	3.6
HM624749/HM624710	120.65	190.5	46.038	46.038	34.925	3.5	1.5	314	540	1700	2400	42	131	135	180	182	3	1	0.43	1.4	0.8	4.85
HM624749/HM624716	120.65	199.974	46.038	46.038	34.925	3.6	1.6	313	512	1700	2400	41.6	133	135	172	182	3.6	1.6	0.43	1.41	0.77	5.43
795/792	120.65	206.375	47.625	47.625	34.925	3.3	3.3	320	530	1700	2400	45.7	149	134	186	199	3.3	3.3	0.46	1.3	0.72	6.35
95475/95905	120.65	230	63.5	63.5	49.213	6.4	3.2	523	826	1600	2300	49.9	139	155	204	216	6.4	3.2	0.37	1.62	0.89	11.6
95475/95925	120.65	234.95	63.5	63.5	49.212	6.4	3.3	510	790	1600	2300	50.5	159	140	212	226	6.4	3.3	0.37	1.6	0.89	12.3
EE153044/153100	120.65	254	77.788	82.55	57.15	9.5	6.4	692	1010	1400	1900	51.1	145	156	217	230	9.5	6.4	0.32	1.87	1.03	18.4
HH228340/HH228310	120.65	254	77.788	82.55	61.913	9.7	6.4	675	975	1400	1900	55	163	140	223	242	9.7	6.4	0.34	1.8	0.97	18.4
HH228340/HH228315	120.65	258.763	77.788	82.55	61.912	9.5	6.4	717	1050	1400	1900	54	145	158	220	233	9.5	6.4	0.32	1.87	1.03	19.5
HH926749/HH926710	120.65	273.05	82.55	82.55	53.975	6.4	6.4	685	870	1300	1800	77	165	137	234	261	6.4	6.4	0.63	0.95	0.52	21
HH926749/HH926716	120.65	279.4	82.55	82.55	53.975	6.4	6.4	685	870	1300	1800	77	165	137	237	264	6.4	6.4	0.63	0.95	0.52	22.2
48286/48220	123.825	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1300	1800	34.2	143	134	167	177	3.5	3.3	0.31	2	1.1	3.51
HM125948/HM125918	123.825	212.725	55.563	60.325	45.237	3.2	3.2	412	658	1300	1800	41.1	135	142	183	192	3.2	3.2	0.3	1.97	1.08	8.05
EE153049/153101	123.825	258.763	77.788	82.55	57.15	9.5	6.4	692	1010	1200	1700	51.1	148	156	217	230	9.5	6.4	0.32	1.87	1.03	18.8
HH228334/HH228318	123.825	259.975	77.788	82.55	61.913	9.5	4	717	1050	1200	1700	54	148	158	220	233	9.5	4	0.32	1.87	1.03	19.4
95491/95912	124.943	231.775	63.5	63.5	49.213	6.4	3.2	523	826	1200	1700	49.9	143	155	204	216	6.4	3.2	0.37	1.62	0.89	11.5
95491/95925	124.943	234.95	63.5	63.5	49.212	6.4	3.3	510	790	1200	1700	50.5	162	142	212	226	6.4	3.3	0.37	1.6	0.89	11.9
JL725346/JL725316	125	175	25.4	25.4	18.288	3.3	3.3	134	232	1200	1700	34.3	141	131	160	170	3.3	3.3	0.48	1.3	0.69	1.76
HM926745/HM926710	125.298	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1800	2600	67.7	157	138	201	223	3.5	3.3	0.74	0.81	0.45	8.72
97493/97900	125.298	228.6	53.975	49.428	38.1	3.6	3.2	325	459	1800	2600	65.6	138	144	194	212	3.6	3.2	0.74	0.81	0.45	8.37
LL225749/LL225710	127	165.895	18.258	17.462	13.495	1.5	1.5	84.5	149	1800	2600	24.2	138	133	157	161	1.5	1.5	0.33	1.8	0.99	0.93
L225849/L225810	127	169.862	25.4	26.195	20.638	1.5	1.5	123	251	1800	2600	28.1	140	134	159	165	1.5	1.5	0.33	1.8	0.99	1.65
L225849/L225818	127	180.975	25.4	26.195	20.638	1.5	1.5	123	251	1700	2400	28.1	140	134	165	170	1.5	1.5	0.33	1.8	0.99	2.14
48290/48220	127	182.562	39.688	38.1	33.338	3.5	3.3	228	445	1700	2400	34.2	145	135	167	177	3.5	3.3	0.31	2	1.1	3.33
67388/67322	127	196.85	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	150	139	180	192	3.5	3.3	0.34	1.7	0.96	5.2
67388/67320	127	203.2	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	150	139	183	195	3.5	3.3	0.34	1.7	0.96	5.8
796x/793	127	206.375	47.625	47.625	34.925	3.6	3.2	326	548	1600	2200	45.7	139	146	183	194	3.6	3.2	0.46	1.31	0.72	5.93
798/792	127	206.375	47.625	50.013	34.925	3.2	3.2	326	548	1600	2200	45.7	138	146	183	194	3.3	3.2	0.46	1.31	0.72	6
74500/74850	127	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	157	143	195	209	3.5	3.3	0.49	1.2	0.68	6.91

74500/74856	127	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	157	143	196	210	3.5	3.3	0.49	1.2	0.68	7.06
HM926747/HM926710	127	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1500	2000	67.7	158	139	201	223	3.5	3.3	0.74	0.81	0.45	8.59
97500/97900	127	228.6	53.975	49.428	38.1	3.5	3.3	330	475	1500	2000	67.5	157	137	198	219	3.5	3.3	0.74	0.82	0.45	8.59
95500/95925	127	234.95	63.5	63.5	49.212	6.4	3.3	505	790	1500	2000	49.4	160	142	210	224	6.4	3.3	0.37	1.6	0.89	11.8
95502/95925	127	234.95	63.5	68.715	49.212	9.7	3.3	505	790	1500	2000	49.5	166	143	210	224	9.7	3.3	0.37	1.6	0.89	12
HM926747/HM926719	127	239.975	53.975	49.428	38.1	3.6	3.2	430	651	1500	2000	68.1	139	148	200	219	3.6	3.2	0.74	0.81	0.45	10.3
EE116050/116097	127	247.65	63.5	63.5	47.625	3.3	4.8	465	640	1500	2000	50.1	158	143	219	234	3.3	4.8	0.37	1.6	0.9	12.6
95500/95975	127	247.65	63.5	63.5	49.212	6.4	3.3	510	790	1500	2000	50.5	163	143	218	233	6.4	3.3	0.37	1.6	0.89	13.5
99500/99100	127	254	66.675	66.675	47.625	6.4	3.2	549	913	1400	1900	55	145	174	224	236	6.4	3.2	0.41	1.47	0.81	15.5
EE153050/153100	127	254	77.788	82.55	57.15	9.7	6.4	570	800	1400	1900	53.7	167	144	223	240	9.7	6.4	0.32	1.9	1	16.6
HH228349/HH228310	127	254	77.788	82.55	61.913	9.7	6.4	675	975	1400	1900	55	166	143	223	242	9.7	6.4	0.34	1.8	0.97	17.6
HH228348/HH228310	127	254	80.963	85.725	61.912	9.5	6.4	717	1050	1400	1900	54.1	151	158	220	233	9.5	6.4	0.32	1.87	1.03	18.1
EE153050/153102	127	260.35	77.788	82.55	57.15	9.5	6.4	692	1010	1400	1900	51.1	151	156	217	230	9.5	6.4	0.32	1.87	1.03	18.7
EE514050/514110	127	279.4	82.55	82.55	53.975	6.4	6.4	660	909	1400	1900	77.8	145	159	228	252	6.4	6.4	0.65	0.92	0.51	22.6
HH231637/HH231610	127	288.925	82.55	87.312	57.15	13.5	6.4	770	1010	1500	2000	56.3	179	151	258	275	13.5	6.4	0.32	1.9	1	24.3
EE540502/541162	127	295.275	82.55	87.313	57.15	13.5	6.4	765	1070	1500	2000	61.9	159	178	249	264	13.5	6.4	0.4	1.51	0.83	27.1
HH231637/HH231615	127	295.275	82.55	87.312	57.15	13.5	6.4	770	1010	1500	2000	56.3	179	151	261	278	13.5	6.4	0.32	1.9	1	25.6
EE750502/751200	127	304.8	60.325	61.912	47.275	6.4	6.4	635	780	1500	2000	49.2	174	158	271	285	6.4	6.4	0.33	1.8	0.99	21.4
EE516050/516120	127	304.8	88.9	82.55	57.15	6.4	6.4	652	896	1500	2000	91.9	145	179	252	280	6.4	6.4	0.73	0.82	0.45	29.2
HH932132/HH932110	127	304.8	88.9	82.55	57.15	6.4	6.4	745	1010	1500	2000	92.3	185	154	262	295	6.4	6.4	0.73	0.82	0.45	29.6
HM926749/HM926710	127.792	228.6	53.975	49.428	38.1	3.5	3.3	375	530	1600	2100	67.7	158	139	201	223	3.5	3.3	0.74	0.81	0.45	8.53
97503/97900	127.792	228.6	53.975	49.428	38.1	3.6	3.2	325	459	1600	2100	65.6	140	144	194	212	3.6	3.2	0.74	0.81	0.45	8.18
48506/48750	128.588	190.5	34.925	31.75	25.4	3.5	3.3	176	325	1700	2200	50.3	150	137	171	184	3.5	3.3	0.65	0.92	0.51	3.24
799/792	128.588	206.375	47.625	47.625	34.925	3.3	3.3	320	530	1700	2200	45.7	153	138	186	199	3.3	3.3	0.46	1.3	0.72	5.77
95514X/95926	129.967	234.95	63.5	68.715	49.213	3.2	3.2	523	826	1700	2200	49.9	141	155	204	216	3.2	3.2	0.37	1.62	0.89	11.6
95512/95925	129.975	234.95	63.5	63.5	49.213	6.4	3.2	523	826	1700	2200	49.9	148	155	204	216	6.4	3.2	0.37	1.62	0.89	11.4
797/792	130	206.375	47.625	47.625	34.925	3.5	3.3	320	530	1700	2200	45.7	153	139	186	199	3.5	3.3	0.46	1.3	0.72	5.66
74511X/74854	130	215.9	47.625	47.625	34.925	3.6	3.2	322	549	1700	2200	49.7	142	156	193	205	3.6	3.2	0.49	1.23	0.68	6.6
67389/67322	130.175	196.85	46.038	46.038	38.1	3.5	3.3	315	560	1700	2200	39.7	152	140	180	192	3.5	3.3	0.34	1.7	0.96	4.97
67389/67320	130.175	203.2	46.038	46.038	38.1	3.5	3.3	315	560	1700	2300	39.7	152	140	183	195	3.5	3.3	0.34	1.7	0.96	5.57
799A/792	130.175	206.375	47.625	47.625	34.925	3.5	3.3	320	530	1700	2300	45.7	154	139	186	199	3.5	3.3	0.46	1.3	0.72	5.65
48384XX/48320XX	133.248	190.5	39.688	39.688	33.338	3.6	3.2	236	472	1700	2300	35.9	145	150	175	182	3.6	3.2	0.32	1.87	1.03	3.58
L327249/L327210	133.35	177.008	25.4	26.195	20.638	1.5	1.5	124	258	1700	2300	29.5	147	141	166	172	1.5	1.5	0.35	1.7	0.95	1.73
48385/48320	133.35	190.5	39.688	39.688	33.338	3.5	3.3	240	485	1700	2400	35.9	153	142	175	185	3.5	3.3	0.32	1.9	1	3.74
67390/67322	133.35	196.85	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	153	142	180	192	3.5	3.3	0.34	1.7	0.96	4.74
67391/67322	133.35	196.85	46.038	46.038	38.1	8	3.3	315	560	1600	2200	39.7	158	142	180	192	8	3.3	0.34	1.7	0.96	4.7
48385/48328	133.35	203.2	39.688	39.688	33.338	3.5	3.3	240	485	1600	2200	35.9	153	142	182	191	3.5	3.3	0.32	1.9	1	4.76
67390/67320	133.35	203.2	46.038	46.038	38.1	3.5	3.3	315	560	1600	2200	39.7	153	142	183	195	3.5	3.3	0.34	1.7	0.96	5.33
67391/67320	133.35	203.2	46.038	46.038	38.1	8	3.3	315	560	1600	2200	39.7	158	142	183	195	8	3.3	0.34	1.7	0.96	5.29
67390/67324	133.35	203.2	46.038	46.038	46.038	3.6	3.2	311	561	1600	2200	39.7	146	148	182	192	3.6	3.2	0.34	1.74	0.96	5.42
74525/74846X	133.35	215	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	160	147	195	208	3.5	3.3	0.49	1.2	0.68	6.34
74525/74850	133.35	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	160	147	195	209	3.5	3.3	0.49	1.2	0.68	6.42
74525/74856	133.35	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	160	147	196	210	3.5	3.3	0.49	1.2	0.68	6.57
95525/95925	133.35	234.95	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	169	146	212	226	9.7	3.3	0.37	1.6	0.89	11
95528/95925	133.35	234.95	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	164	146	212	226	4.8	3.3	0.37	1.6	0.89	11
95525/95928	133.35	234.975	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	169	146	212	227	9.7	3.3	0.37	1.6	0.89	11
95528/95928	133.35	234.975	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	164	146	212	227	4.8	3.3	0.37	1.6	0.89	11
95529X/95925	133.35	234.975	63.5	68.715	49.212	3.2	3.2	523	826	1500	2000	49.9	145	155	204	216	3.2	3.2	0.37	1.62	0.89	11.3
95525/95929	133.35	234.975	64.798	63.5	49.949	9.5	3.2	523	826	1500	2000	51.2	157	155	204	216	9.5	3.2	0.37	1.62	0.89	11.1
95527A/95975	133.35	247.65	63.5	63.5	49.213	13.2	3.2	523	826	1500	2000	49.9	165	155	204	216	13.2	3.2	0.37	1.62	0.89	12.8
95525/95975	133.35	247.65	63.5	63.5	49.212	9.7	3.3	510	790	1500	2000	50.5	169	146	218	233	9.7	3.3	0.37	1.6	0.89	12.8
95528/95975	133.35	247.65	63.5	63.5	49.212	4.8	3.3	510	790	1500	2000	50.5	164	146	218	233	4.8	3.3	0.37	1.6	0.89	12.9
74529/74853	134.975	215.9	53.975	47.625	47.625	3.6	3.2	322	549	1700	2400	56.1	147	156	193	209	3.6	3.2	0.49	1.23	0.68	6.92
LM32844/LM328410	136.525	187.325	28.575	29.37	23.02	1.6	1.6	178	323	1700	2400	31.7	14.7	151	175	181	1.6	1.6	0.35	1.69	0.93	2.24

48393/48320	136.525	190.5	39.688	39.688	33.338	3.5	3.3	240	485	1700	2400	35.9	154	144	175	185	3.5	3.3	0.32	1.9	1	3.53
48393A/48320	136.525	190.5	39.688	39.688	33.338	5.5	3.3	246	500	1700	2400	35	151	140	176	182	5	3	0.33	1.8	1	3.3
48393/48328	136.525	203.2	39.688	39.688	33.338	3.6	3.2	236	472	1700	2400	35.9	149	150	175	182	3.6	3.2	0.32	1.87	1.03	4.38
74537/74846X	136.525	215	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	162	148	195	208	3.5	3.3	0.49	1.2	0.68	6.09
74537/74850	136.525	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	162	148	195	209	3.5	3.3	0.49	1.2	0.68	6.17
74537/74856	136.525	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1700	2400	48.4	162	148	196	210	3.5	3.3	0.49	1.2	0.68	6.32
896/892	136.525	228.6	57.15	57.15	44.45	3.5	3.3	380	620	1600	2300	51.5	163	149	204	219	3.5	3.3	0.42	1.4	0.78	8.86
99537/99097	136.525	249.975	66.675	66.675	53.401	7.1	3	549	913	1600	2300	55	156	174	225	240	7.1	3	0.41	1.47	0.81	14.1
99537/99100	136.525	254	66.675	66.675	47.625	7	3.3	515	830	1600	2300	55.3	178	157	230	245	7	3.3	0.41	1.5	0.81	14.2
99540/99100	137.317	254	66.675	66.675	47.625	13.5	3.2	549	913	1600	2300	55	169	174	224	236	13.5	3.2	0.41	1.47	0.81	14.3
LL428349/LL428310	139.7	180.975	21.433	20.638	16.67	1.5	1.5	104	194	1600	2300	29.8	152	147	171	176	1.5	1.5	0.37	1.6	0.9	1.36
LM328448/LM328410	139.7	187.325	28.575	29.37	23.02	1.5	1.5	153	305	1600	2300	31.7	155	148	176	182	1.5	1.5	0.36	1.7	0.93	2.26
48680/48620	139.7	200.025	41.275	39.688	34.13	3.6	3.3	246	491	1500	2000	38.6	152	156	183	190	3.6	3.3	0.34	1.78	0.98	4.04
74550/74846X	139.7	215	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	163	150	195	208	3.5	3.3	0.49	1.2	0.68	5.83
74550A/74846X	139.7	215	47.625	47.625	34.925	6.4	3.3	287	495	1500	2000	48.4	166	150	195	208	6.4	3.3	0.49	1.2	0.68	5.81
74555/74846X	139.7	215	47.625	53.37	34.925	12.7	3.2	322	549	1500	2000	49.7	170	156	193	205	12.7	3.2	0.49	1.23	0.68	5.77
74550/74850	139.7	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1500	2000	48.4	163	150	195	209	3.5	3.3	0.49	1.2	0.68	5.92
74550A/74850	139.7	215.9	47.625	47.625	34.925	6.4	3.2	322	549	1500	2000	49.7	158	156	193	205	6.4	3.2	0.49	1.23	0.68	5.82
73551/73875	139.7	222.25	34.925	31.623	23.812	3.5	3.3	191	267	1400	1900	41.6	162	152	203	211	3.5	3.3	0.44	1.4	0.75	4.25
898/892	139.7	228.6	57.15	57.15	44.45	3.5	3.3	380	620	1400	1900	51.5	165	151	204	219	3.5	3.3	0.42	1.4	0.78	8.55
898A/892	139.7	228.6	57.15	57.15	44.45	6.4	3.3	380	620	1400	1900	51.5	168	151	204	219	6.4	3.3	0.42	1.4	0.78	8.53
899/892	139.7	228.6	57.15	58.738	44.45	3.6	3.2	439	730	1400	1900	50.6	152	157	202	214	3.6	3.2	0.42	1.43	0.78	8.72
HM231132/HM231110	139.7	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	168	154	216	228	3.5	3.3	0.32	1.9	1	9.63
82550/82931	139.7	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	170	155	213	228	3.5	3.3	0.44	1.4	0.75	9.81
HM231133/HM231110	139.7	236.538	57.15	60.325	44.45	3.6	3.2	499	832	1400	1900	45.2	152	168	213	223	3.6	3.2	0.32	1.88	1.04	10.3
HM231132/HM231115	139.7	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	168	154	218	230	3.5	3.3	0.32	1.9	1	10.3
82550/82950	139.7	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	170	155	215	230	3.5	3.3	0.44	1.4	0.75	10.4
99550/99098X	139.7	250	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	179	158	228	243	7	3.3	0.41	1.5	0.81	13.2
99549/99098X	139.7	250	66.675	71.438	47.625	3.2	3.2	549	913	1300	1800	55	151	174	224	236	3.2	3.2	0.41	1.47	0.81	13.9
99550/99100	139.7	254	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	179	158	230	245	7	3.3	0.41	1.5	0.81	13.8
99550/99100S	139.7	254	66.675	66.675	47.625	7.1	3.2	549	913	1300	1800	55	159	174	224	236	7.1	3.2	0.41	1.47	0.81	14.1
EE107055/107105	139.7	268.288	74.613	74.613	57.15	6.4	6.4	658	1050	1300	1800	59.4	158	177	234	249	6.4	6.4	0.39	1.55	0.85	18.8
HH231649/HH231610	139.7	288.925	82.55	87.312	57.15	9.7	6.4	770	1010	1300	1800	56.3	182	158	258	275	9.7	6.4	0.32	1.9	1	22.6
EE540550/541162	139.7	295.275	82.55	87.313	57.15	9.5	6.4	765	1070	1300	1800	61.9	164	178	249	264	9.5	6.4	0.4	1.51	0.83	25.4
HH231649/HH231615	139.7	295.275	82.55	87.312	57.15	9.7	6.4	770	1010	1300	1800	56.3	182	158	261	278	9.7	6.4	0.32	1.9	1	23.9
EE75058/751200	139.7	304.8	60.325	61.913	41.275	3.2	6.4	599	800	1300	1800	49.8	151	192	258	268	3.2	6.4	0.33	1.8	0.99	20.3
EE750562/751200	139.7	304.8	60.325	61.913	41.275	6.4	6.4	599	800	1300	1800	49.8	158	192	258	268	6.4	6.4	0.33	1.8	0.99	20.3
HH234031/HH234010	139.7	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	1300	1800	63.2	191	165	275	294	9.7	6.8	0.33	1.8	1	29.8
HH234032/HH234010	139.7	307.975	88.9	93.663	66.675	9.5	6.7	1020	1450	1300	1800	63.3	164	191	271	285	9.5	6.7	0.33	1.84	1.01	31.6
EE516055/516122	139.7	311.15	88.9	82.55	57.15	6.4	6.4	652	896	1300	1800	91.9	158	179	252	280	6.4	6.4	0.73	0.82	0.45	28.8
HH234031/HH234018	139.7	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	1300	1800	63.2	191	165	279	298	9.7	6.8	0.33	1.8	1	32.2
74556/74846X	139.975	215	47.625	47.625	34.925	3.6	3.2	322	549	1200	1700	49.7	152	156	193	205	3.6	3.2	0.49	1.23	0.68	5.74
99553/99097	139.97	249.975	66.675	71.438	53.401	1.6	3	549	913	1200	1700	55	148	174	225	240	1.6	3	0.41	1.47	0.81	14
74551X/74846X	140	215	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	163	150	195	208	3.5	3.3	0.49	1.2	0.68	5.81
74551/74850	140	215.9	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	163	150	195	209	3.5	3.3	0.49	1.2	0.68	5.89
74551X/74856	140	217.488	47.625	47.625	34.925	3.5	3.3	287	495	1600	2200	48.4	163	150	196	210	3.5	3.3	0.49	1.2	0.68	6.04
36686/36620	142.875	193.675	28.575	28.575	23.02	1.6	1.6	187	375	1600	2200	33.7	151	157	180	186	1.6	1.6	0.37	1.63	0.9	2.41
48684/48620	142.875	200.025	41.275	39.688	34.13	8	3.3	227	460	1600	2200	37.6	167	153	185	195	8	3.3	0.34	1.8	0.98	3.77
48685/48620	142.875	200.025	41.275	39.688	34.13	3.5	3.3	227	460	1600	2200	37.6	162	153	185	195	3.5	3.3	0.34	1.8	0.98	3.81
48686/48620	142.875	200.025	41.275	42.863	34.13	3.6	3.3	246	491	1600	2200	38.6	155	156	183	190	3.6	3.3	0.34	1.78	0.98	3.89
73562/73875	142.875	222.25	34.925	31.623	23.813	3.6	3.2	209	302	1600	2200	41.9	155	163	198	205	3.6	3.2	0.44	1.37	0.75	3.2
HM231136/HM231110	142.875	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1600	2200	45.9	170	156	216	228	3.5	3.3	0.32	1.9	1	9.32
82562/82931	142.875	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1600	2200	53.7	171	156	213	228	3.5	3.3	0.44	1.4	0.75	9.5
HM231136/HM231115	142.875	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1600	2200	45.9	170	156	218	230	3.5	3.3	0.32	1.9	1	9.94

82562/82950	142.875	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1600	2200	53.7	171	156	215	230	3.5	3.3	0.44	1.4	0.75	10.1
LL529749/LL529710	146.05	188.12	22.225	20.638	16.67	1.5	1.5	107	200	1600	2200	33.5	159	153	178	183	1.5	1.5	0.42	1.4	0.79	1.44
36690/36620	146.05	193.675	28.575	28.575	23.02	1.5	1.5	170	355	1600	2200	33.5	161	154	182	188	1.5	1.5	0.37	1.6	0.9	2.36
36691/36620	146.05	193.675	28.575	28.575	23.02	4.8	1.5	170	355	1400	1900	33.5	164	154	182	188	4.8	1.5	0.37	1.6	0.9	2.35
36690/36626	146.05	203.2	28.575	28.575	23.02	1.6	1.6	187	375	1400	1900	33.7	154	157	180	186	1.6	1.6	0.37	1.63	0.9	2.78
HM231140/HM231110	146.05	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1400	1900	45.9	171	158	216	228	3.5	3.3	0.32	1.9	1	9
82576/82931	146.05	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	173	158	213	228	3.5	3.3	0.44	1.4	0.75	9.18
82576/82950	146.05	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1400	1900	53.7	173	158	215	230	3.5	3.3	0.44	1.4	0.75	9.8
81575/81962	146.05	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1400	1900	42.9	175	164	225	235	3.5	3.3	0.35	1.7	0.94	8.28
99575/99100	146.05	254	66.675	66.675	47.625	7	3.3	515	830	1400	1900	55.3	182	162	230	245	7	3.3	0.41	1.5	0.81	13.1
EE107057/107105	146.05	268.288	74.612	74.612	57.15	6.4	6.4	610	980	1400	1900	59.5	184	163	236	256	6.4	6.4	0.39	1.5	0.85	17.6
EE217056/217112	146.05	285.75	76.2	73.025	55.563	6.4	6.4	588	882	1400	1900	60.4	164	186	246	261	6.4	6.4	0.4	1.49	0.82	20
EE217064/217112	146.05	285.75	76.2	73.025	55.563	1.2	6.4	588	882	1400	1900	60.4	154	186	246	261	1.2	6.4	0.4	1.49	0.82	20.1
EE750573/751200	146.05	304.8	60.325	61.913	41.275	12.7	6.4	599	800	1000	1400	49.8	177	192	258	268	12.7	6.4	0.33	1.8	0.99	19.5
EE750576/751200	146.05	304.8	60.325	61.913	41.275	3.2	6.4	599	800	1000	1400	49.8	158	192	258	268	3.2	6.4	0.33	1.8	0.99	19.7
EE750577/751200	146.05	304.8	60.325	61.913	41.275	6.4	6.4	599	800	1000	1400	49.8	164	192	258	268	6.4	6.4	0.33	1.8	0.99	19.6
EE516057/516120	146.05	304.8	88.9	82.55	57.15	6.4	6.4	652	896	950	1400	91.9	164	179	252	280	6.4	6.4	0.73	0.82	0.45	26.5
HH932145/HH932110	146.05	304.8	88.9	82.55	57.15	6.4	6.4	745	1010	950	1400	92.3	195	164	262	295	6.4	6.4	0.73	0.82	0.45	27
EE450577/451212	146.05	307.975	88.9	93.662	61.912	9.7	6.8	745	1070	950	1400	61.5	196	171	271	289	9.7	6.8	0.33	1.8	1	28.8
HH234040/HH234010	146.05	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	950	1400	63.2	194	168	275	294	9.7	6.8	0.33	1.8	1	28.7
HH932145/HH932115	146.05	311.15	88.9	82.55	57.15	6.4	6.4	791	1060	950	1400	92.1	164	177	260	288	6.4	6.4	0.73	0.82	0.45	28.3
HH932145/HH932115	146.05	311.15	88.9	82.55	57.15	6.4	6.4	745	1010	950	1400	92.3	195	164	265	298	6.4	6.4	0.73	0.82	0.45	28.3
HH234040/HH234018	146.05	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	950	1400	63.2	194	168	279	298	9.7	6.8	0.33	1.8	1	31.2
HM231148/HM231110	149.225	236.538	57.15	56.642	44.45	6.4	3.3	455	720	1100	1500	45.9	176	159	216	228	6.4	3.3	0.32	1.9	1	8.65
HM231149/HM231110	149.225	236.538	57.15	56.642	44.45	3.5	3.3	455	720	1100	1500	45.9	173	159	216	228	3.5	3.3	0.32	1.9	1	8.68
82587/82931	149.225	236.538	57.15	56.642	44.45	3.5	3.3	400	680	1100	1500	53.7	175	160	213	228	3.5	3.3	0.44	1.4	0.75	8.85
HM231148/HM231115	149.225	241.3	57.15	56.642	44.45	6.4	3.3	455	720	1100	1500	45.9	176	159	218	230	6.4	3.3	0.32	1.9	1	9.27
HM231149/HM231115	149.225	241.3	57.15	56.642	44.45	3.5	3.3	455	720	1100	1500	45.9	173	159	218	230	3.5	3.3	0.32	1.9	1	9.3
82587/82950	149.225	241.3	57.15	56.642	44.45	3.5	3.3	400	680	1100	1500	53.7	175	160	215	230	3.5	3.3	0.44	1.4	0.75	9.47
99587/99098X	149.225	250	66.675	66.675	47.625	7.1	3.2	549	913	1100	1500	55	168	174	224	236	7.1	3.2	0.41	1.47	0.81	12.4
560990/561251	149.86	317.5	77.788	76.2	53.975	3.2	4.8	752	1100	1100	1500	69.7	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
99591/99100S	149.975	254	66.675	71.438	47.625	3.2	3.2	549	913	1100	1500	55	161	174	224	236	3.2	3.2	0.41	1.47	0.81	13.2
81590/81962X	150	244.475	47.498	50.005	41.275	3.6	3.2	322	494	1200	1600	41.7	162	177	221	230	3.6	3.2	0.35	1.72	0.95	8.02
81590/81962	150	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1200	1600	42.9	177	166	225	235	3.5	3.3	0.35	1.7	0.94	7.92
99590X/99098X	150	250	66.675	66.675	47.625	7.1	3.2	549	913	1200	1600	55	169	174	224	236	7.1	3.2	0.41	1.47	0.81	12.3
EE560592/561251	150.698	317.5	77.788	76.2	53.975	17.5	4.8	752	1100	1100	1500	69.7	191	201	271	287	17.5	4.8	0.46	1.29	0.71	26.9
81593/81964	150.813	245	47.625	50.005	33.338	3.6	3.2	322	494	1200	1600	41.8	163	177	219	227	3.6	3.2	0.35	1.72	0.95	7.63
99599X/99098X	152.146	250	66.675	66.675	47.625	7.1	3.2	549	913	1200	1600	55	171	174	224	236	7.1	3.2	0.41	1.47	0.81	12.1
M231649/M231610	152.4	222.25	46.83	46.83	34.925	3.3	1.5	287	530	1500	2000	41.6	175	163	207	215	3.3	1.5	0.33	1.8	0.99	5.76
81600/81962	152.4	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1500	2000	42.9	178	167	225	235	3.5	3.3	0.35	1.7	0.94	7.7
99600/99098X	152.4	250	66.675	66.675	47.625	7.1	3.2	549	913	1500	2000	55	172	174	224	236	7.1	3.2	0.41	1.47	0.81	12.1
99600/99100	152.4	254	66.675	66.675	47.625	7	3.3	515	830	1300	1800	55.3	185	165	230	245	7	3.3	0.41	1.5	0.81	12.3
99603/99100	152.4	254	66.675	71.438	47.625	1.6	3.2	549	913	1300	1800	55	161	174	224	236	1.6	3.2	0.41	1.47	0.81	12.8
HM234636/HM234610	152.4	266.7	66.675	71.438	50.8	6.4	3.2	602	993	1300	1800	52.6	170	188	240	252	6.4	3.2	0.34	1.78	0.98	15.6
EE107060/107105	152.4	268.288	74.612	74.612	57.15	6.4	6.4	610	980	1300	1800	59.5	187	166	236	256	6.4	6.4	0.39	1.5	0.85	16.7
107960/107105	152.4	268.288	74.613	77.788	57.15	6.4	6.4	658	1050	1300	1800	59.4	170	177	234	249	6.4	6.4	0.39	1.55	0.85	17.2
EE107060/107107	152.4	269.799	74.612	74.613	57.15	6.4	6.4	658	1050	1300	1800	59.4	170	177	234	249	6.4	6.4	0.39	1.55	0.85	17.4
EE217060/217112	152.4	285.75	76.2	73.025	55.563	1.6	6.4	588	882	1200	1600	60.4	161	186	246	261	1.6	6.4	0.4	1.49	0.82	19.2
EE450601/451212	152.4	307.975	88.9	93.662	61.912	9.7	6.8	745	1070	1200	1600	61.5	199	174	271	289	9.7	6.8	0.33	1.8	1	27.7
HH234048/HH234010	152.4	307.975	88.9	93.662	66.675	9.7	6.8	885	1190	1200	1600	63.2	197	171	275	294	9.7	6.8	0.33	1.8	1	27.6
HH234049/HH234010	152.4	307.975	88.9	93.663	66.675	9.5	6.7	1020	1450	1200	1600	63.3	176	191	271	285	9.5	6.7	0.33	1.84	1.01	29.4
HH234048/HH234018	152.4	317.5	88.9	93.662	66.675	9.7	6.8	885	1190	1200	1600	63.2	197	171	279	298	9.7	6.8	0.33	1.8	1	30.1
EE560600/561279	152.4	323.85	77.788	76.2	53.975	17.5	4.8	752	1100	1200	1600	69.7	192	201	271	287	17.5	4.8	0.46	1.29	0.71	28
81606/81962	153.988	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1300	1800	42.9	179	168	225	235	3.5	3.3	0.35	1.7	0.94	7.55

81606/81962	153.988	244.475	47.625	50.005	33.338	3.6	3.2	322	494	1300	1800	41.8	166	177	219	227	3.6	3.2	0.35	1.72	0.95	7.29
H936340/H936310	155.575	330.2	85.725	79.375	53.975	6.4	6.4	760	1060	1200	1600	103.3	209	178	283	317	6.4	6.4	0.81	0.74	0.41	32.5
H936340/H936316	155.575	342.9	85.725	79.375	53.975	6.4	6.4	760	1060	1200	1600	103.3	209	178	289	323	6.4	6.4	0.81	0.74	0.41	35.3
L432348/L432310	158.75	205.583	23.812	23.812	18.258	4.8	1.5	138	280	1500	2000	33	176	173	198	197	4.4	1.5	0.37	1.6	0.9	1.9
L432348/L432310XX	158.75	205.583	23.813	23.813	18.258	4.8	1.6	131	253	1500	2000	33.4	173	172	193	197	4.8	1.6	0.37	1.6	0.88	1.86
L432349/L432310	158.75	205.583	23.812	23.812	18.258	1.5	1.5	127	249	1500	2000	33.9	173	167	195	200	1.5	1.5	0.39	1.5	0.84	1.99
46780/46720	158.75	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1400	1900	44.3	183	172	208	219	3.5	3.3	0.38	1.6	0.86	5.34
EE217062X/217112	158.75	285.75	76.2	73.025	55.563	13.5	6.4	588	882	1400	1900	60.4	191	186	246	261	13.5	6.4	0.4	1.49	0.82	18.2
EE280626/281200	158.75	304.8	66.675	69.106	42.863	6.4	3.2	548	802	1400	1900	54.4	177	211	271	282	6.4	3.2	0.36	1.67	0.92	20
HM234643/HM234612	159.512	266.7	66.675	71.438	50.8	1.6	3.2	602	993	1400	1900	52.6	168	188	240	252	1.6	3.2	0.34	1.78	0.98	14.6
EE560629/561251	159.918	317.5	77.788	76.2	53.975	10.4	4.8	752	1100	1400	1900	69.7	186	201	271	287	10.4	4.8	0.46	1.29	0.71	25.8
81630/81962	159.951	244.475	47.625	46.83	33.338	3.6	3.2	322	494	1400	1900	41.8	172	177	219	227	3.6	3.2	0.35	1.72	0.95	6.62
81629/81962	159.951	244.475	47.625	50.005	33.338	3.5	3.3	330	510	1400	1900	42.9	182	171	225	235	3.5	3.3	0.35	1.7	0.94	6.97
JM734445/JM734410	160	240	46	44.501	37	3	2.5	353	666	1400	1900	50.1	171	184	221	231	3	2.5	0.44	1.37	0.75	7.19
HM237532/HM237510	160.325	288.925	63.5	63.5	47.625	7	3.3	615	935	1300	1800	52.7	202	183	266	278	7	3.3	0.32	1.9	1	17
EE560631X/561251	160.338	317.5	77.788	76.2	53.975	11.2	4.8	752	1100	1300	1800	69.7	188	201	271	287	11.2	4.8	0.46	1.29	0.71	25.7
81637/81962	161.925	244.475	47.625	46.83	33.338	3.5	3.3	330	510	1300	1800	42.9	183	172	225	235	3.5	3.3	0.35	1.7	0.94	6.67
EE590638/591326	161.925	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1300	1800	75.7	180	213	286	303	6.4	6.4	0.49	1.22	0.67	30.7
590938/591326	161.925	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1300	1800	75.7	180	213	286	303	6.4	6.4	0.49	1.22	0.67	30.7
EE117063/117148	161.925	374.65	87.312	79.375	60.325	6.4	3.3	855	1090	1300	1800	98.6	217	188	325	355	6.4	3.3	0.71	0.85	0.47	42.2
HM237537/HM237510	164.975	288.925	63.5	68	47.625	7.1	3.2	628	973	1300	1800	52.2	184	203	260	270	7.1	3.2	0.32		1.04	16.7
L433749/L433710	165.1	215.9	26.195	26.195	20.638	1.5	1.5	154	295	1400	1900	34.5	180	173	204	210	1.5	1.5	0.36	1.7	0.91	2.45
46790/46720	165.1	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1400	1900	44.3	186	175	208	219	3.5	3.3	0.38	1.6	0.86	4.84
67780/67720	165.1	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1400	1900	52.4	194	180	228	241	3.5	3.3	0.44	1.4	0.75	8.16
86650/86100	165.1	254	46.038	46.038	33.338	4.8	3.3	340	535	1400	1900	44.9	191	178	235	246	4.8	3.3	0.37	1.6	0.89	7.56
M235145/M235113	165.1	254	465.038	46.038	33.338	4.8	3.3	370	595	1400	1900	41.9	191	178	235	245	4.8	3.3	0.32	1.9	1	7.72
M235144/M235113	165.1	254	49.213	52.388	33.338	4.8	3.2	378	620	1400	1900	41.6	180	191	232	239	4.8	3.2	0.32	1.88	1.04	8.34
HM235148/HM235118	165.1	260.35	53.975	58.738	41.275	1.6	3.2	467	812	1400	1900	45	173	189	232	241	1.6	3.2	0.32	1.88	1.04	10.6
HM234648/HM234610	165.1	266.7	66.675	71.438	50.8	1.6	3.2	602	993	1400	1900	52.6	173	188	240	252	1.6	3.2	0.34	1.78	0.98	13.9
HM237535/HM237510	165.1	288.925	63.5	63.5	47.625	7	3.3	615	935	1300	1800	52.7	204	185	266	278	7	3.3	0.32	1.9	1	16.4
HM237536/HM237511	165.1	288.925	63.5	63.5	47.625	7.1	3.2	628	973	1300	1800	52.2	184	203	260	270	7.1	3.2	0.32	1.88	1.04	16.4
94649/94113	165.1	288.925	63.5	63.5	47.625	7	3.3	545	940	1300	1800	62.6	206	185	261	277	7	3.3	0.47	1.3	0.7	17.2
94650/94113A	165.1	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1300	1800	63.2	184	203	255	270	7.1	3.2	0.47	1.28	0.7	17
HM237534/HM237511	165.1	288.925	63.5	68.263	47.625	3.2	3.2	628	973	1300	1800	52.2	177	203	260	270	3.2	3.2	0.32	1.88	1.04	16.8
HM237535/HM237513	165.1	289.975	63.5	63.5	48	7.1	3	628	973	1300	1800	52.2	184	203	260	270	7.1	3	0.32	1.88	1.04	16.6
EE219065/219117	165.1	298.45	82.55	82.55	63.5	6.4	6.4	716	1130	1300	1800	67	183	202	264	280	6.4	6.4	0.38	1.59	0.88	23.4
94649/94118	165.1	298.45	63.5	63.5	47.625	7	3.3	545	940	1300	1800	62.6	206	185	265	282	7	3.3	0.47	1.3	0.7	18.8
EE219065/219122	165.1	311.15	82.55	82.55	63.5	6.4	6.4	770	1230	1200	1600	65.8	206	185	274	295	6.4	6.4	0.38	1.6	0.88	26.3
H238140/H238110	165.1	311.15	82.55	82.55	65.088	6.4	6.4	835	1280	1200	1600	63.9	208	187	279	298	6.4	6.4	0.33	1.8	1	26.5
EE560650/561251	165.1	317.5	77.788	76.2	53.975	3.2	4.8	752	1100	1200	1600	69.7	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
560950/561251	165.1	317.5	77.788	76.2	53.975	3.2	4.8	752	1100	1200	1600	69.7	177	201	271	287	3.2	4.8	0.46	1.29	0.71	25.1
560950/561279	165.1	323.85	77.788	76.2	53.975	3.2	4.8	752	1100	1200	1600	69.7	177	201	271	287	3.2	4.8	0.46	1.29	0.71	26.4
EE590650/591326	165.1	336.55	79.375	80.962	53.975	17.5	6.4	757	1100	1200	1600	75.7	205	213	286	303	17.5	6.4	0.49	1.22	0.67	30
HH437549/HH437510	165.1	336.55	92.075	95.25	69.85	3.3	6.4	990	1380	1100	1400	70.8	206	185	297	320	3.3	6.4	0.37	1.6	0.89	35
EE590649/591350	165.1	342.9	79.375	80.962	53.975	1.2	6.4	757	1100	1100	1400	75.7	173	213	286	303	1.2	6.4	0.49	1.22	0.67	31.7
EE420651/421417	165.1	360	92.075	88.897	63.5	9.7	3.3	875	1340	1100	1400	78.9	234	208	329	349	9.7	3.3	0.42	1.4	0.79	42.1
EE108065/108142	165.1	361.95	106.362	104.775	76.2	13.5	3.3	1240	1690	1100	1400	73.4	220	188	323	342	13.5	3.3	0.33	1.8	0.99	48.5
46792R/46720	166.688	225.425	41.275	39.688	33.338	3.6	3.2	258	568	1300	1800	4	179	181	207	215	3.6	3.2	0.38	1.57	0.86	4.46
46792/46720	166.688	225.425	41.275	39.688	33.338	3.5	3.3	240	540	1300	1800	44.3	187	176	208	219	3.5	3.3	0.38	1.6	0.86	4.71
M235147X/M235113	167.945	254	49.213	53.975	33.338	4.8	3.2	378	620	1300	1800	41.6	183	191	232	239	4.8	3.2	0.32	1.88	1.04	8.1
67782/67720	168.275	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1300	1800	52.4	195	182	228	241	3.5	3.3	0.44	1.4	0.75	7.85
M235147/M235113	168.275	254	46.038	50.8	33.338	3.2	3.2	378	620	1300	1800	41.5	180	191	232	239	3.2	3.2	0.32	1.88	1.04	7.79
H936349/H936310	168.275	330.2	85.725	79.375	53.975	6.4	6.4	760	1060	1300	1800	103.3	216	184	283	317	6.4	6.4	0.81	0.74	0.41	30.5
H936349/H936316	168.275	342.9	85.725	79.375	53.975	6.4	6.4	760	1060	1300	1800	103.3	216	184	289	323	6.4	6.4	0.81	0.74	0.41	33.3

HM535347/HM535310	169.977	260.35	66.675	66.675	52.388	3.6	3.2	538	1030	1300	1800	58	182	189	234	248	3.6	3.2	0.4	1.49	0.82	12.4
94669/94118	169.984	298.45	63.5	63.5	47.625	7.1	3.2	550	960	1300	1800	63.2	189	203	25	270	7.1	3.2	0.47	1.28	0.7	18
JHM534149/JHM534110	170	230	39	38	31	3	2.5	278	520	1300	1800	43.2	188	177	215	225	3	2.5	0.38	1.6	0.86	4.41
JM734449/JM734410	170	240	46.038	44.5	37	3	2.5	380	720	1300	1800	50.5	191	178	222	234	3	2.5	0.44	1.4	0.75	6.44
M235149/M235113	170	254	46.038	46.038	33.338	4.8	3.3	370	595	1300	1800	41.9	194	180	235	245	4.8	3.3	0.32	1.9	1	7.26
86669/86100	170	254	46.038	46.038	33.338	4.8	3.3	340	535	1300	1800	44.9	194	181	235	246	4.8	3.3	0.37	1.6	0.89	7.09
86669/86105	170	266.7	46.038	46.038	33.338	4.8	1.6	336	531	1300	1800	44.9	185	189	230	238	4.8	1.6	0.37	1.63	0.9	8.36
L435049/L435010	171.45	222.25	25.4	24.608	19.05	1.6	1.6	157	299	1300	1800	36	180	185	208	213	1.6	1.6	0.38	1.6	0.88	2.33
HM535349/HM535310	171.45	260.35	66.675	66.675	52.388	3.5	3.3	540	1030	1300	1800	57.6	198	182	236	252	3.5	3.3	0.4	1.5	0.82	12.5
HM237540/HM237510	171.45	288.925	63.5	63.5	47.625	7.1	3.2	628	973	1200	1600	52.2	191	203	260	270	7.1	3.2	0.32	1.88	1.04	15.5
94675/94113A	171.45	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1200	1600	63.2	191	203	255	270	7.1	3.2	0.47	1.28	0.7	16.2
94675/94113	171.45	288.925	63.5	63.5	47.625	7	3.3	545	940	1200	1600	62.6	209	189	261	277	7	3.3	0.47	1.3	0.7	16.3
94675/94118	171.45	298.45	63.5	63.5	47.625	7	3.3	545	940	1200	1600	62.6	209	189	265	282	7	3.3	0.47	1.3	0.7	18
EE590675/591326	171.45	336.55	79.375	80.963	53.975	6.4	6.4	757	1100	1100	1600	75.7	189	213	286	303	6.4	6.4	0.49	1.22	0.67	29.2
EE590675/591350	171.45	342.9	79.375	80.963	53.975	6.4	6.4	757	1100	1100	1600	75.7	189	213	286	303	6.4	6.4	0.49	1.22	0.67	30.6
590977/591350	171.45	342.9	79.375	84.138	53.975	1.2	6.4	757	1100	1100	1600	75.7	179	213	286	303	1.2	6.4	0.49	1.22	0.67	30.9
EE117067/117148	171.45	374.65	87.313	79.375	60.325	6.4	3.2	868	1220	1100	1600	103.7	189	218	308	338	6.4	3.2	0.73	0.82	0.45	42.2
67786/67720	174.625	247.65	47.625	47.625	38.1	7.9	3.2	346	701	1100	1600	52.3	195	192	227	238	7.9	3.2	0.44	1.36	0.75	6.93
67787/67720	174.625	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1100	1600	52.4	199	185	228	241	3.5	3.3	0.44	1.4	0.75	7.21
M236845/M236810	174.625	260.35	53.975	53.975	41.275	3.6	3.2	442	821	1100	1600	48.4	187	198	238	247	3.6	3.2	0.33	1.8	0.99	9.31
HM237542/HM237510	174.625	288.925	63.5	63.5	47.625	7	3.3	615	935	1100	1600	52.7	209	190	266	278	7	3.3	0.32	1.9	1	15.2
94687/94113	174.625	288.925	63.5	63.5	47.625	7	3.3	545	940	1100	1600	62.6	211	190	261	277	7	3.3	0.47	1.3	0.7	15.9
94687/94113A	174.625	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1100	1600	63.2	194	203	255	270	7.1	3.2	0.47	1.28	0.7	15.8
94687/94118	174.625	298.45	63.5	63.5	47.625	7	3.3	545	940	1100	1600	62.6	211	190	265	282	7	3.3	0.47	1.3	0.7	17.5
EE219068/219117	174.625	298.45	82.55	82.55	63.5	6.4	6.4	795	1290	1100	1600	66.4	211	190	267	288	6.4	6.4	0.38	1.6	0.88	22.1
EE219068/219122	174.625	311.15	82.55	82.55	63.5	6.4	6.4	716	1130	1000	1500	67	192	202	264	280	6.4	6.4	0.38	1.59	0.88	24.7
H238148/H238110	174.625	311.15	82.55	82.55	65.088	6.4	6.4	835	1280	1000	1500	63.9	212	191	279	298	6.4	6.4	0.33	1.8	1	24.9
EE607071/607140	177.292	355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	195	228	305	324	6.4	6.4	0.55	1.1	0.6	32.8
LL735449/LL735410	177.8	215.9	20.638	20.638	15.083	1.5	1.5	109	241	1200	1600	38.5	190	184	206	211	1.5	1.5	0.45	1.3	0.73	1.51
36990/36920	177.8	227.012	30.162	30.162	23.02	1.5	1.5	181	415	1300	1800	42.9	193	185	214	222	1.5	1.5	0.44	1.4	0.75	3.01
67790/67720	177.8	247.65	47.625	47.625	38.1	3.5	3.3	345	705	1300	1800	52.4	200	186	228	241	3.5	3.3	0.44	1.4	0.75	6.88
67791/67720	177.8	247.65	47.625	47.625	38.1	10.4	3.3	345	705	1300	1800	52.4	207	186	228	241	10.4	3.3	0.44	1.4	0.75	6.79
M236848/M236810	177.8	260.35	53.975	53.975	41.275	7.9	3.2	442	821	1300	1800	48.4	199	198	238	247	7.9	3.2	0.33	1.8	0.99	8.9
M236849/M236810	177.8	260.35	53.975	53.975	41.275	3.5	3.3	455	835	1200	1700	47.5	201	189	241	252	3.5	3.3	0.33	1.8	0.99	9.35
M238840/M238810	177.8	269.875	55.562	55.562	42.862	3.5	3.3	465	875	1200	1700	51.1	208	194	250	262	3.5	3.3	0.35	1.7	0.95	11.1
82680X/82620	177.8	279.4	61.913	61.913	43.655	3.2	3.2	483	821	1200	1700	65.6	189	201	251	267	3.2	3.2	0.52	1.14	0.63	12.8
EE91702/91112	177.8	285.75	63.5	63.5	41.275	6.4	3.3	450	725	1200	1700	58.9	210	193	260	274	6.4	3.3	0.43	1.4	0.77	13.7
HM237545/HM237510	177.8	288.925	63.5	63.5	47.625	7	3.3	615	935	1200	1700	52.7	210	191	266	278	7	3.3	0.32	1.9	1	14.7
94700/94113	177.8	288.925	63.5	63.5	47.625	7	3.3	545	940	1200	1700	62.6	213	192	261	277	7	3.3	0.47	1.3	0.7	15.5
94700/94113A	177.8	288.925	63.5	63.5	47.625	7.1	3.2	550	960	1200	1700	63.2	197	203	255	270	7.1	3.2	0.47	1.28	0.7	15.3
HM237545/HM237513	177.8	289.974	63.5	63.5	48	7	3	680	1070	1200	1700	52.2	189	203	260	270	3.2	3	0.32	1.88	1.04	14.6
HM237543/HM237513	177.8	289.975	63.5	68.263	48	3.2	3	628	973	1200	1700	52.2	189	203	260	270	3.2	3	0.32	1.88	1.04	15.2
280970/281200	177.8	304.8	60.325	63.5	42.863	1.6	3.2	548	802	1100	1500	54.4	186	211	271	282	1.6	3.2	0.36	1.67	0.92	16.4
EE280702/281202	177.8	304.8	66.675	69.106	42.863	6.4	3.2	548	802	1100	1500	54.4	196	211	271	282	6.4	3.2	0.36	1.67	0.92	17.3
EE280702/281200	177.8	304.8	66.675	69.106	42.862	6.4	3.3	555	810	1100	1500	54.3	214	196	280	292	6.4	3.3	0.36	1.7	0.92	17.4
H238147/H238110	177.8	311.15	82.55	85.725	65.088	6.4	6.4	862	1340	1100	1500	64.3	196	207	273	288	6.4	6.4	0.33	1.82	1	24.9
EE222070/222126	177.8	319.964	88.9	85.725	65.088	3.5	4.8	790	1300	1100	1500	72.6	218	199	287	307	3.5	4.8	0.4	1.5	0.83	28.4
H239640/H239610	177.8	319.964	88.9	85.725	65.088	3.5	4.8	855	1270	1100	1500	66.3	215	197	292	309	3.5	4.8	0.32	1.9	1	26.9
EE222070/222128	177.8	320.675	88.9	85.725	65.088	3.5	4.8	790	1300	1100	1500	72.6	218	199	287	308	3.5	4.8	0.4	1.5	0.83	28.6
H239640/H239612	177.8	320.675	88.9	85.725	65.088	3.5	4.8	855	1270	1100	1500	66.3	215	197	292	309	3.5	4.8	0.32	1.9	1	27
EE470078/470128	177.8	327.025	90.488	92.075	63.5	6.4	6.4	930	1500	1000	1500	68.6	223	200	294	315	6.4	6.4	0.37	1.6	0.9	31
EE470078X/470128	177.8	327.025	90.488	92.075	63.5	9.5	6.4	864	1430	1000	1500	68.3	202	224	290	305	9.5	6.4	0.37	1.63	0.9	31
470978/470128	177.8	327.025	90.488	92.075	63.5	6.4	6.4	864	1430	1000	1500	68.3	196	224	290	305	6.4	6.4	0.37	1.63	0.9	31.1
590900/591326	177.8	336.55	79.375	80.963	53.975	3.2	6.4	757	1100	1000	1500	75.7	189	213	286	303	3.2	6.4	0.49	1.22	0.67	28.1

EE470073/470132	177.8	336.55	90.488	92.075	63.5	13.5	6.4	864	1430	1000	1500	68.3	210	224	290	305	13.5	6.4	0.37	1.63	0.9	33.4
EE607070/607140	177.8	355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	196	228	305	324	6.4	6.4	0.55	1.1	0.6	32.7
EE420701/421417	177.8	360	92.075	88.897	63.5	12.7	3.2	938	1460	1000	1500	75.6	208	243	317	334	12.7	3.2	0.4	1.49	0.82	40.5
EE420701/421437	177.8	365.049	92.075	88.897	63.5	12.7	3.3	875	1340	1000	1500	78.9	243	214	332	351	12.7	3.3	0.42	1.4	0.79	41.1
EE420701/421450	177.8	368.3	92.075	88.897	63.5	12.7	3.3	875	1340	1000	1500	78.9	243	214	333	353	12.7	3.3	0.42	1.4	0.79	42
EE350701/351687	177.8	428.625	106.362	95.25	61.912	6.4	6.4	1070	1390	1000	1500	118.7	196	237	350	382	6.4	6.4	0.76	0.79	0.44	64.6
M336948/M336912	178.595	265.112	51.595	57.15	38.895	3.3	3.3	495	880	1200	1700	47	194	196	250	251	3	3	0.33	1.8	1	9.6
M336949/M336912	179.934	265.112	51.595	57.15	38.895	3.3	3.3	495	880	1200	1700	47	194	196	250	251	3	3	0.33	1.8	1	9.6
93708/93125	179.972	317.5	63.5	46.038	3.5	3.3	575	1060	1200	1700	71	224	206	288	306	3.5	3.3	0.52	1.1	0.63	21.2	
93708/93126	179.972	317.5	68.262	63.5	50.8	3.5	3.3	575	1060	1200	1700	75.8	224	206	286	306	3.5	3.3	0.52	1.1	0.63	22.1
93708/93125	179.975	317.5	63.5	46.038	3.6	3.2	604	1130	1200	1700	71.4	192	227	278	295	3.6	3.2	0.52	1.15	0.63	20.8	
67875/67820	179.997	266.7	47.099	46	38.1	6.4	3.2	339	703	1200	1700	57.8	198	211	245	257	6.4	3.2	0.48	1.26	0.69	8.87
JM736149/JM736110	180	250	47	45	37	3	2.5	369	695	1200	1700	56	192	192	240	243	2.5	2.5	0.48	1.25	0.7	6.65
HM237547/HM237510	180	288.925	63.5	68.262	47.625	7	3.2	628	973	1200	1700	52.2	199	203	260	270	7	3.2	0.32	1.88	1.04	14.6
M238843/M238810	180.975	269.875	55.563	55.563	42.863	1.6	3.2	411	805	1100	1600	49.9	189	209	246	255	1.6	3.2	0.33	1.8	0.99	10.5
LL537649/LL537610	184.15	236.538	26.192	25.4	19.05	1.5	1.5	155	291	1100	1600	38	199	193	225	230	1.5	1.5	0.37	1.6	0.89	2.66
67883/67820	184.15	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	212	198	246	260	3.5	3.3	0.48	1.3	0.69	8.73
67883/67830	184.15	279.997	46.525	46.833	36	3.6	3.2	339	703	1100	1600	56.7	196	211	245	257	3.6	3.2	0.48	1.26	0.69	10
67884/67820	187.325	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	214	200	246	260	3.5	3.3	0.48	1.3	0.69	8.39
M238849/M238810	187.325	269.875	55.562	55.562	42.862	3.5	3.3	490	920	1100	1600	49.6	211	198	250	261	3.5	3.3	0.33	1.8	0.99	10.1
87737/87111	187.325	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	215	202	262	274	3.5	3.3	0.42	1.4	0.79	9.94
67884/67835	187.325	289.992	46.525	46.833	36	3.6	3.2	339	703	1100	1600	56.7	200	211	245	257	3.6	3.2	0.48	1.26	0.69	10.9
H239649/H239610	187.325	319.964	88.9	85.725	65.088	5.5	4.8	855	1270	1100	1600	66.3	222	202	292	309	5.5	4.8	0.32	1.9	1	25
H239649/H239612	187.325	320.675	88.9	85.725	65.088	5.5	4.8	855	1270	1100	1600	66.3	222	202	292	309	5.5	4.8	0.32	1.9	1	25.2
M239447/M239410	189.738	279.4	52.388	57.15	41.275	3.3	3.3	523	980	1100	1600	49	202	212	266	266	3	3	0.33	1.8	1	11
JM738249/JM738210	190	260	46	44	36.5	3	2.5	370	730	1100	1600	56.4	212	198	241	255	3	2.5	0.48	1.3	0.69	6.94
67886/67820	190.078	266.7	47.099	46	38.1	6.4	3.2	339	703	1100	1600	57.8	208	211	245	257	6.4	3.2	0.48	1.26	0.69	7.82
M239449/M239410	190.475	279.4	52.388	57.15	41.275	3.3	3.3	523	980	1100	1600	49	203	212	266	266	3	3	0.33	1.8	1	11
67885/67820	190.5	266.7	47.625	46.833	38.1	3.5	3.3	345	720	1100	1600	57.9	215	202	246	260	3.5	3.3	0.48	1.3	0.69	8.04
87750/87111	190.5	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	217	204	262	274	3.5	3.3	0.42	1.4	0.79	9.59
93750/93125	190.5	317.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	231	211	288	306	4.3	3.3	0.52	1.1	0.63	19.7	
93750/93126	190.5	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	231	211	286	306	4.3	3.3	0.52	1.1	0.63	20.6
EE470075/470128	190.5	327.025	90.488	92.075	63.5	6.4	6.4	930	1500	1000	1500	68.6	229	206	294	315	6.4	6.4	0.37	1.6	0.9	28.3
470975/470130	190.5	330.2	82.551	84.138	63.5	4.8	6.4	864	1430	1000	1500	68.4	205	224	290	305	4.8	6.4	0.37	1.63	0.9	27.9
HH840249/HH840210	190.5	336.55	98.425	95.25	73.025	6.4	6.4	940	1600	1000	1500	93.7	237	205	292	325	6.4	6.4	0.58	1	0.57	35.7
470975/470133	190.5	339.725	82.551	84.138	63.5	4.8	6.4	864	1430	1000	1500	68.4	205	224	290	305	4.8	6.4	0.37	1.63	0.9	30.4
EE470075/470133	190.5	339.725	90.488	92.075	63.5	6.4	6.4	864	1430	1000	1500	68.3	208	224	290	305	6.4	6.4	0.37	1.63	0.9	31.7
EE607075/607140	190.5	355.6	79.375	77.788	53.975	6.4	6.4	754	1090	1000	1500	83.8	208	228	305	324	6.4	6.4	0.55	1.1	0.6	30.5
EE420751/421437	190.5	365.049	92.075	88.897	63.5	6.4	3.3	975	1600	1000	1500		227	218	329	334	6.4	3.3	0.4	1.49	0.82	42.9
EE420751/421450	190.5	368.3	92.075	88.897	63.5	6.4	3.3	875	1340	1000	1500	78.9	243	220	333	353	6.4	3.3	0.42	1.4	0.79	39.6
EE350750/351687	190.5	428.625	106.362	95.25	61.912	6.4	6.4	1140	1400	950	1400	119	246	213	369	405	6.4	6.4	0.76	0.79	0.44	57.9
M239448A/M239410	191.237	279.4	53.975	58.738	41.275	3.3	3.3	523	980	1100	1600	49	204	212	265	266	3	3	0.33	1.8	1	10.5
67887/67820	192.088	266.7	47.625	46.833	38.1	10.4	3.2	339	703	1100	1600	57.8	218	211	245	257	10.4	3.2	0.48	1.26	0.69	7.6
87762/87111	193.675	282.575	50.8	47.625	36.512	3.5	3.3	360	600	1100	1600	54.8	218	205	262	274	3.5	3.3	0.42	1.4	0.79	9.23
67888/67820	194.975	266.7	47.625	46.833	38.1	3.6	3.2	339	703	1100	1600	57.8	207	211	245	257	3.6	3.2	0.48	1.26	0.69	7.38
LL639249/LL639210	196.85	241.3	23.812	23.017	17.462	1.5	1.5	131	293	1100	1600	41.4	210	204	230	236	1.5	1.5	0.42	1.4	0.79	2.23
L540049/L540010	196.85	254	28.575	27.783	21.433	1.5	1.5	177	355	1100	1600	42.9	213	206	241	247	1.5	1.5	0.4	1.5	0.83	3.48
LM739749/LM739710	196.85	257.175	39.688	39.688	30.162	3.5	3.3	271	620	1100	1600	51.3	218	206	240	251	3.5	3.3	0.45	1.3	0.73	5.33
LM739749/LM739719	196.85	266.7	39.688	39.688	30.163	3.6	3.2	268	632	1100	1600	50.6	209	211	238	247	3.6	3.2	0.45	1.34	0.74	6.18
93775/93125	196.85	317.5	63.5	46.038	4.3	3.3	575															

122978/122125	199.975	317.5	66.675	70	50.8	4.3	3.2	741	1270	1100	1600	54.4	214	232	289	299	4.3	3.2	0.3	2.02	1.11	19.5
JHM840449/JHM840410	200	300	65	62	51	3.5	2.5	615	1130	950	1400	73.1	230	211	274	292	3.5	2.5	0.52	1.2	0.63	15.5
HR32040XJ	200	310	70	70	53	3	2.5	760	1370	950	1400	67.4	231	213	285	302	2.5	2	0.43	1.4	0.77	18.9
LM241147/LM241110	200.025	276.225	42.862	46.038	34.133	3.5	3.3	390	780	1000	1500	45	216	220	261	265	3	3	0.31	1.9	1.1	7.7
M241543/M241510	200.025	292.1	57.945	57.945	46.038	3.6	3.2	545	1030	1000	1500	52.6	213	223	268	278	3.6	3.2	0.33	1.8	0.99	12.1
M241542/M241510	200.025	292.1	57.945	61.913	46.038	6.4	3.2	545	1030	1000	1500	52.6	219	223	268	278	6.4	3.2	0.33	1.8	0.99	12.3
93787/93125	200.025	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	235	216	288	306	4.3	3.3	0.52	1.1	0.63	18.3
93787/93126	200.025	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	235	216	286	306	4.3	3.3	0.52	1.1	0.63	19.2
HM743337/HM743310	200.025	333.375	69.85	69.85	52.388	6.4	6.4	690	1190	1000	1500	71.3	242	222	302	322	6.4	6.4	0.44	1.4	0.75	23.3
EE130787/131400	200.025	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	1000	1500	59.8	250	232	329	340	6.8	1.5	0.33	1.8	0.99	28.3
H247535/H247510	200.025	384.175	112.712	112.712	90.488	6.4	6.4	1220	2220	1000	1500	84.2	258	234	344	369	6.4	6.4	0.33	1.8	0.99	58.8
HH144642/HH144614	200.025	393.7	111.125	111.125	84.138	6.4	6.4	1300	2030	1000	1500	78.1	251	227	352	374	6.4	6.4	0.3	2	1.1	57.4
M241545/M241510	200.812	292.1	57.945	61.913	46.038	6.4	3.2	545	1030	1000	1500	52.6	220	223	268	278	6.4	3.2	0.33	1.8	0.99	12.2
EE420793/421417	201.612	360	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	246	226	329	349	3.3	3.3	0.42	1.4	0.79	34.9
LL641149/LL641110	203.2	261.142	28.575	27.783	21.433	1.5	1.5	176	355	1100	1600	43.7	219	212	247	254	1.5	1.5	0.41	1.5	0.81	3.54
LM241149/LM241110	203.2	276.225	42.862	42.862	34.133	3.5	3.3	335	620	1100	1600	44	224	213	259	269	3.5	3.3	0.32	1.9	1	6.84
67983/67919	203.2	279.4	46.038	46.038	36.513	3.6	3.2	349	707	1100	1600	61.6	216	222	259	272	3.6	3.2	0.51	1.18	0.65	8.04
67983/67920	203.2	282.575	46.038	46.038	36.512	3.5	3.3	365	800	1100	1600	61.9	230	215	261	276	3.5	3.3	0.51	1.2	0.65	8.85
M241547/M241510	203.2	292.1	57.945	57.945	46.038	3.6	3.2	545	1030	1100	1600	52.6	216	223	268	278	3.6	3.2	0.33	1.8	0.99	11.7
EE132083/132125	203.2	317.5	53.975	53.975	34.925	4	3.3	460	725	1100	1600	48	232	219	293	302	4	3.3	0.31	1.9	1.1	13.5
93800/93125	203.2	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1100	1600	71	237	217	288	306	4.3	3.3	0.52	1.1	0.63	17.8
93800A/93125	203.2	317.5	63.5	63.5	46.038	7.9	3.3	575	1060	1100	1600	71	240	217	288	306	7.9	3.3	0.52	1.1	0.63	17.7
EE122080/122125	203.2	317.5	66.675	66.675	50.8	4.3	3.3	615	995	1100	1600	55.9	234	218	293	305	4.3	3.3	0.3	2	1.1	17.4
93800/93126	203.2	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1100	1600	75.8	237	217	286	306	4.3	3.3	0.52	1.1	0.63	18.7
93800A/93126	203.2	317.5	68.262	63.5	50.8	7.9	3.3	575	1060	1100	1600	75.8	240	217	286	306	7.9	3.3	0.52	1.1	0.63	18.6
HM542948/HM542911	203.2	346.075	79.375	80.962	60.325	1.5	3.3	900	1460	1000	1500	78.9	224	224	315	322	1.5	3.3	0.39	1.55	0.85	28.8
EE420801/421417	203.2	360	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	246	227	329	349	3.3	3.3	0.42	1.4	0.79	34.5
EE420801/421437	203.2	365.049	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	246	227	332	351	3.3	3.3	0.42	1.4	0.79	36
EE420801/421450	203.2	368.3	92.075	88.897	63.5	3.3	3.3	875	1340	1000	1500	78.9	246	227	333	353	3.3	3.3	0.42	1.4	0.79	36.9
EE710806/711574	203.2	399.928	72	61.913	54	7.1	3.2	788	1100	1000	1500	84.5	223	274	354	371	7.1	3.2	0.47	1.27	0.7	36.8
EE114080/114160	203.2	406.4	92.075	85.725	57.15	6.4	6.4	935	1310	1000	1500	119.9	260	226	352	387	6.4	6.4	0.79	0.75	0.42	48.1
EE380080/380190	203.2	482.6	117.475	95.25	73.025	6.4	6.4	1190	1590	1000	1500	148.6	274	236	408	451	6.4	6.4	0.87	0.69	0.38	88.7
LL641148/LL641110	203.479	261.142	28.575	31.75	21.433	1.6	1.6	189	394	1000	1500	43.7	213	220	244	250	1.6	1.6	0.41	1.47	0.81	3.57
LM241148/LM241110	203.987	276.225	42.662	46.038	34.133	3.5	3.3	390	780	1000	1500	45	220	220	261	265	3	3	0.31	1.9	1.1	7.25
LM241148/LM241111	203.987	276.225	42.662	46.038	34.132	3.6	3.2	375	715	1000	1500	46.3	217	221	257	264	3.6	3.2	0.32	1.88	1.04	7.12
M241549/M241510	204.788	292.1	57.945	57.945	46.038	3.5	3.3	540	1050	1000	1500	52.8	229	216	271	283	3.5	3.3	0.33	1.8	0.99	12.1
93806A/93125	204.788	317.5	63.5	63.5	46.038	4.3	3.2	604	1130	1000	1500	71.4	219	227	278	295	4.3	3.2	0.52	1.15	0.63	17.1
67985/67920	206.375	282.575	46.038	46.038	36.512	3.5	3.3	365	800	1000	1500	61.9	231	216	261	276	3.5	3.3	0.51	1.2	0.65	8.48
67987/67920	206.375	282.575	46.038	49.212	36.513	3.6	3.2	349	707	1000	1500	61.6	220	222	259	272	3.6	3.2	0.51	1.18	0.65	8.17
EE132084/132125	206.375	317.5	53.975	53.975	34.925	4	3.3	460	725	1000	1500	48	234	220	293	302	4	3.3	0.31	1.9	1.1	13
93812/93125	206.375	317.5	63.5	63.5	46.038	4.3	3.2	64	1130	1000	1500	71.4	221	227	278	295	4.3	3.2	0.52	1.15	0.63	16.9
EE132084/162127	206.375	319.088	53.975	53.975	34.925	4	3.2	439	724	1000	1500	48.4	220	238	285	292	4	3.2	0.31	1.91	1.05	13.6
H242649/H242610	206.375	336.55	98.425	100.012	77.788	3.3	3.3	1040	1900	900	1300	73.4	242	222	306	325	3.3	3.3	0.33	1.8	0.99	32.8
EE420812X/421417	206.375	360	92.075	88.897	63.5	6.4	3.2	938	1460	900	1300	75.6	225	243	317	334	6.4	3.2	0.4	1.49	0.82	34.7
EE380081/380190	206.375	482.6	117.475	95.25	73.025	6.4	6.4	1450	2060	900	1300	152.8	225	272	386	428	6.4	6.4	0.87	0.69	0.38	92.7
67989/67920	209.55	282.575	46.038	46.038	36.512	3.5	3.3	365	800	900	1300	61.9	233	218	261	276	3.5	3.3	0.51	1.2	0.65	8.11
93825/93125	209.55	317.5	63.5	63.5	46.038	4.3	3.3	575	1060	1000	1500	71	240	221	288	306	4.3	3.3	0.52	1.1	0.63	16.7
93825A/93125	209.55	317.5	63.5	63.5	46.038	12.7	3.3	575	1060	1000	1500	71	248	221	288	306	12.7	3.3	0.52	1.1	0.63	16.6
93825/93126	209.55	317.5	68.262	63.5	50.8	4.3	3.3	575	1060	1000	1500	75.8	240	221	286	306	4.3	3.3	0.52	1.1	0.63	17.6
93825A/93126	209.55	317.5	68.262	63.5	50.8	12.7	3.3	575	1060	1000	1500	75.8	248	221	286	306	12.7	3.3	0.52	1.1	0.63	17.5
HM743345/HM743310	209.55	333.375	69.85	69.85	52.388	6.4	6.4	690	1190	1000	1500	71.3	247	227	302	322	6.4	6.4	0.44	1.4	0.75	21.7
96825/96140	209.55	355.6	68.262	66.675	47.625	7	3.3	605	1170	1000	1500	85.9	260	236	321	343	7	3.3	0.59	1	0.56	26.7
LM742745/LM742710	212.725	285.75	46.038	46.038	34.925	3.5	3.3	350	755	1000	1500	60.4	237	224	267	280	3.5	3.3	0.48	1.2	0.69	8.15
M246932/M246910	212.725	336.55	65.088	65.088	50.8	6.4	3.2	708	1380	1000	1500	59.9	232	258	309	320	6.4	3.2	0.33	1.8	0.99	21.6

LM742748/LM742710	215.9	285.75	46.038	46.038	34.925	3.6	3.2	356	781	1000	1500	60.7	229	231	265	276	3.6	3.2	0.48	1.25	0.69	7.55
LM742749/LM742710	215.9	285.75	46.038	46.038	34.925	3.5	3.3	350	755	1000	1500	60.4	239	225	267	280	3.5	3.3	0.48	1.2	0.69	7.77
543085/543114	215.9	290.01	31.75	31.75	22.225	3.5	3.3	225	455	1000	1500	45.3	237	228	271	279	3.5	3.3	0.39	1.5	0.85	5.49
EE130852/131400	215.9	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	1000	1500	59.8	258	240	329	340	6.8	1.5	0.33	1.8	0.99	25.4
EE130851/131400	215.9	355.6	69.85	69.85	49.213	6.7	1.6	727	1310	1000	1500	59.9	235	263	319	330	6.7	1.6	0.33	1.82	1	25.9
EE420850/421417	215.9	360	82.55	79.372	63.5	1.6	3.2	938	1460	1000	1500	75.7	225	243	317	334	1.6	3.2	0.4	1.49	0.82	30.9
LM742747/LM742710	216.408	285.75	46.038	49.212	34.925	3.5	3.3	352	780	1000	1500	60	230	230	271	277	3	3	0.48	1.25	0.7	7.85
LM742747A/LM742710	216.713	285.75	46.038	49.212	34.925	3.5	3.3	352	780	1000	1500	60	230	230	271	277	3	3	0.48	1.25	0.7	7.8
EE710865/711600	219.916	406.4	63.5	61.913	39.688	7.1	6.4	788	1100	1000	1500	76	240	274	355	367	7.1	6.4	0.47	1.27	0.7	32.1
543086/543114	219.969	290.01	31.75	31.75	22.225	3.5	3.3	225	455	1000	1500	45.3	239	231	271	279	3.5	3.3	0.39	1.5	0.85	5.14
543086/543116	219.969	292.009	31.75	31.75	22.225	3.6	3.2	231	472	1000	1500	45.1	233	238	267	272	3.6	3.2	0.38	1.56	0.86	5.27
LM245832/LM245810	220.116	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	235	249	302	304	3	3	0.31	1.9	1.1	12.5
M244249/M244210	220.662	314.325	61.912	61.912	49.212	6.4	3.3	595	1190	900	1300	57	250	233	292	305	6.4	3.3	0.33	1.8	0.99	14.9
LM245833/LM245810	220.878	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	336	249	302	304	3	3	0.31	1.9	1.1	12.5
EE380875/380190	222.25	482.6	117.475	95.25	73.025	6.4	6.4	1450	2060	900	1300	152.8	241	272	386	428	6.4	6.4	0.87	0.69	0.38	88.8
LM844049/LM844010	223.838	295.275	46.038	46.038	34.925	3.6	3.2	360	792	900	1300	63.1	237	239	274	286	3.6	3.2	0.5	1.2	0.66	8.01
EE130889/131400	225.425	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	900	1300	59.8	263	245	329	340	6.8	1.5	0.33	1.8	0.99	23.6
EE430888/431575	225.425	400.05	88.9	87.312	63.5	1.5	3.3	945	1510	900	1300	82	266	246	359	379	1.5	3.3	0.44	1.4	0.75	42.6
EE710905/711600	227.33	406.4	63.5	61.913	39.688	7.1	6.4	788	1100	900	1300	76	248	274	355	367	7.1	6.4	0.47	1.27	0.7	30.9
EE113089/113170	228.397	431.8	92.075	85.725	49.212	6.4	6.4	885	1320	900	1300	132.5	287	256	378	410	6.4	6.4	0.88	0.68	0.38	49
EE113089/113181	228.397	459.892	85.344	85.725	42.482	6.4	3.2	994	1450	900	1300	128.1	247	275	372	397	6.4	3.2	0.88	0.68	0.37	55
EE113091/113170	228.46	431.8	92.075	85.725	49.212	6.4	6.4	885	1320	900	1300	132.5	287	256	378	410	6.4	6.4	0.88	0.68	0.38	49
544090/544116	228.6	295.275	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	250	240	279	288	3.5	3.3	0.4	1.5	0.82	5.25
544090/544118	228.6	300.038	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	250	240	282	291	3.5	3.3	0.4	1.5	0.82	5.66
88900/88126	228.6	320.675	50.8	49.212	33.338	6.4	3.3	445	840	900	1300	65.4	260	242	300	312	6.4	3.3	0.48	1.2	0.68	11.6
88900/88128	228.6	327.025	52.388	49.212	34.925	6.4	3.3	445	840	900	1300	67	260	242	302	315	6.4	3.3	0.48	1.2	0.68	12.7
8573/8520	228.6	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	261	244	304	317	6.4	3.3	0.41	1.5	0.81	13.3
96900/96140	228.6	355.6	68.262	66.675	47.625	7	3.3	605	1170	900	1300	85.9	270	246	321	343	7	3.3	0.59	1	0.56	23.3
EE130902/131400	228.6	355.6	69.85	69.85	49.212	6.8	1.5	695	1230	900	1300	59.8	265	246	329	340	6.8	1.5	0.33	1.8	0.99	23
HM746645/HM746610	228.6	355.6	69.85	69.85	50.8	6.4	6.4	772	1370	900	1300	77	247	261	322	338	6.4	6.4	0.47	1.27	0.7	24
HM746646/HM746610	228.6	355.6	69.85	69.85	50.8	6.4	6.4	765	1300	900	1300	75.6	266	244	324	345	6.4	6.4	0.47	1.3	0.7	23.1
M249732/M249710	228.6	358.775	71.438	71.438	53.975	3.6	3.2	773	1590	900	1300	64.4	242	279	330	342	3.6	3.2	0.33	1.8	0.99	26.6
EE710906/711574	228.6	399.928	72	61.913	54	7.1	3.2	788	1100	900	1300	84.5	249	274	354	371	7.1	3.2	0.47	1.27	0.7	32.6
EE430900/431575	228.6	400.05	88.9	87.312	63.5	10.4	3.3	945	1510	900	1300	82	277	248	359	379	10.4	3.3	0.44	1.4	0.75	41.7
EE430902/431575	228.6	400.05	88.9	87.312	63.5	19.8	3.3	945	1510	900	1300	82	286	248	359	379	19.8	3.3	0.44	1.4	0.75	41.3
EE700091/700167	228.6	425.45	101.6	95.25	76.2	7	6.4	1280	2000	900	1300	80.8	281	257	384	406	7	6.4	0.33	1.8	0.99	57
HH949549/HH949510	228.6	488.95	123.825	111.125	73.025	6.4	6.4	1600	2500	900	1300	166.5	307	264	420	470	6.4	6.4	0.94	0.64	0.35	103
EE390090/390200	228.6	508	117.475	95.25	73.025	6.4	6.4	1240	1780	900	1300	168.3	305	266	429	479	6.4	6.4	0.94	0.64	0.35	96.5
LM245846/LM245810	230.188	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	246	249	302	304	3	3	0.31	1.9	1.1	11
LL244549/LL244510	231.775	268.288	22.499	21.501	18.499	2	2	130	317	900	1300	38.1	242	240	258	262	2	2	0.33	1.8	0.99	1.82
544091/544116	231.775	295.275	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	251	241	279	288	3.5	3.3	4	1.5	0.82	4.96
544091/544118	231.775	300.038	33.338	31.75	23.812	3.5	3.3	224	460	900	1300	49.6	251	241	282	291	3.5	3.3	0.4	1.5	0.82	5.38
LM245848/LM245810	231.775	317.5	47.625	52.338	36.512	3.3	3.3	523	980	900	1300	49	248	249	302	304	3	3	0.31	1.9	1.1	10.5
M246942/M246910	231.775	336.55	65.088	65.088	50.8	6.4	3.3	640	1270	900	1300	60.1	265	247	313	326	6.4	3.3	0.33	1.8	0.99	18.4
M246943/M246910	231.775	336.55	65.088	69.85	50.8	6.4	3.2	708	1380	900	1300	59.9	251	258	309	320	6.4	3.2	0.33	1.8	0.99	18.6
M249734/M249710	231.775	358.775	71.438	71.438	53.975	6.4	3.2	773	1590	900	1300	64.4	251	279	330	342	6.4	3.2	0.33	1.8	0.99	26.3
HM647448/HM647411	231.775	377.825	79.375	80.963	58.738	3.2	3.2	958	1630	900	1300	77.6	244	266	337	353	3.2	3.2	0.43	1.4	0.77	32.9
M249743/M249710	231.775	358.775	71.438	71.438	53.975	6.4	3.3	760	1540	900	1300	64.6	276	256	335	348	6.4	3.3	0.33	1.8	0.99	26.2
LM446349/LM446310	234.95	311.15	46.038	46.038	33.338	3.6	3.2	407	825	900	1300	52.4	248	253	290	298	3.6	3.2	0.36	1.66	0.91	8.73
LM545849/LM545810	234.95	314.325	49.212	49.212	36.512	3.5	3.3	455	955	900	1300	57.4	260	247	296	309	3.5	3.3	0.4	1.5	0.83	10.4
LM545849/LM545812	234.95	317.5	49.213	49.213	36.513	3.6	3.2	485	981	900	1300	57.5	248	252	294	303	3.6	3.2	0.4	1.51	0.83	10.6
88925/88126	234.95	320.675	50.8	49.212	33.338	6.4	3.3	445	840	900	1300	65.4	263	246	300	312	6.4	3.3	0.48	1.2	0.68	10.7
88925/88128	234.95	327.025	52.388	49.212	34.925	6.4	3.3	445	840	900	1300	67	263	246	302	315	6.4	3.3	0.48	1.2	0.68	11.8
8574/8520	234.95	327.025	52.388	52.388	36.513	6.4	3.2	468	930	900	1300	60	254	258	300	310	6.4	3.2	0.41	1.48	0.81	12.2

8575/8520	234.95	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	264	248	304	317	6.4	3.3	0.41	1.5	0.81	12.4
8575/8522	234.95	328.625	52.388	52.388	36.513	6.4	3.2	468	930	900	1300	60	254	258	300	310	6.4	3.2	0.41	1.48	0.81	12.4
96925/96140	234.95	355.6	68.262	66.675	47.625	7	3.3	605	1170	900	1300	85.9	273	249	321	343	7	3.3	0.59	1	0.56	22.1
M252330/M252310	234.95	381	74.613	74.613	57.15	6.4	3.2	854	1670	900	1300	69	254	294	351	363	6.4	3.2	0.33	1.8	0.99	32.5
H247548/H247510	234.95	384.175	112.712	112.712	90.488	6.4	6.4	1450	2680	900	1300	83.8	254	265	342	362	6.4	6.4	0.33	1.8	0.99	50
H247549/H247510	234.95	384.175	112.712	112.712	90.488	6.4	6.4	1220	2220	900	1300	84.2	276	251	344	369	6.4	6.4	0.33	1.8	0.99	48.2
88931/88126	236.538	320.675	44.45	44.45	33.338	3.6	3.2	409	755	900	1300	64.4	250	254	298	309	3.6	3.2	0.48	1.24	0.68	9.24
M246949/M246910	237.33	336.55	65.088	65.088	50.8	6.4	3.3	640	1270	900	1300	60.1	268	250	313	326	6.4	3.3	0.33	1.8	0.99	17.3
M249736/M249710	237.33	358.775	71.438	53.975	53.975	6.4	3.3	760	1540	900	1300	64.6	279	259	335	348	6.4	3.3	0.33	1.8	0.99	25
EE125094/125145	241.122	368.3	68.262	68.262	53.975	6.4	3.3	685	1210	900	1300	65.3	277	258	339	354	6.4	3.3	0.34	1.7	0.96	24.1
8578/8520	241.3	327.025	52.388	52.388	36.512	6.4	3.3	470	940	900	1300	59.6	267	250	304	317	6.4	3.3	0.41	1.5	0.81	11.4
EE170950/171400	241.3	355.6	50.8	50.8	33.338	6.4	3.2	508	924	900	1300	56.1	260	280	328	336	6.4	3.2	0.36	1.65	0.91	16.1
EE127095/127135	241.3	349.148	57.15	57.15	44.45	6.4	3.3	570	1060	900	1300	59.5	274	257	325	338	6.4	3.3	0.35	1.7	0.93	16.8
EE170950/171400	241.3	355.6	50.8	50.8	33.338	6.4	3.3	460	815	900	1300	56	275	260	331	341	6.4	3.3	0.36	1.7	0.91	15.2
EE127095/127140	241.3	355.6	57.15	57.15	44.45	6.4	3.3	570	1060	900	1300	59.5	274	257	328	341	6.4	3.3	0.35	1.7	0.93	18
EE170950/171436	241.3	365.049	50.8	50.8	33.338	6.4	3.2	508	924	900	1300	56.1	260	280	328	336	6.4	3.2	0.36	1.65	0.91	17.4
EE170950/171450	241.3	368.3	50.8	50.8	33.338	6.4	3.3	460	815	900	1300	56	275	260	338	348	6.4	3.3	0.36	1.7	0.91	17.1
EE125095/125145	241.3	368.3	68.262	68.262	53.975	6.4	3.3	685	1210	900	1300	65.3	278	258	339	354	6.4	3.3	0.34	1.7	0.96	24.1
EE275095/275155	241.3	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	900	1300	76.1	293	274	364	382	6.4	6.4	0.4	1.5	0.82	32.3
EE275095/275160	241.3	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	800	1100	72.1	293	274	371	389	6.4	6.4	0.4	1.5	0.82	34.3
EE923095/923175	241.3	444.5	101.6	100.012	76.2	6.4	4.8	1410	2240	800	1100	84.4	295	273	403	423	6.4	4.8	0.34	1.8	0.98	65.4
EE295950/295193	241.3	488.95	120.65	120.65	92.075	6.4	6.4	1720	2860	800	1100	92.8	315	288	445	469	6.4	6.4	0.31	1.9	1.1	101
EE390095/390200	241.3	508	117.475	95.25	73.025	6.4	6.4	1240	1780	800	1100	168.3	312	272	429	479	6.4	6.4	0.94	0.64	0.35	93
LL648434/LL648415	243.683	315.913	31.75	31.75	22.225	3.6	3.2	241	549	800	1100	54	257	268	295	301	3.6	3.2	0.43	1.39	0.77	6
EE126097/126150	244.475	381	79.375	76.2	57.15	6.4	4.8	820	1540	800	1100	87.5	286	261	344	367	6.4	4.8	0.52	1.2	0.64	30.7
EE700096/700167	244.475	425.45	93.6663	87.313	76.2	1.6	6.4	1180	1980	800	1100	81.2	254	285	364	381	1.6	6.4	0.33	1.8	0.99	52.4
28880/28820	247.65	304.8	22.225	22.225	15.875	1.6	1.6	155	322	800	1100	38.8	257	262	285	289	1.6	1.6	0.32	1.85	1.02	3.05
M348449/M348410	247.65	346.075	63.5	63.5	50.8	6.4	6.4	726	1440	800	1100	61.7	267	268	319	331	6.4	6.4	0.34	1.75	0.96	17.4
EE170975/171400	247.65	355.6	50.8	50.8	33.338	6.4	3.3	460	815	800	1100	56	278	263	331	341	6.4	3.3	0.36	1.7	0.91	14.2
EE170975/171450	247.65	368.3	50.8	50.8	33.338	6.4	3.3	460	815	800	1100	56	278	263	338	348	6.4	3.3	0.36	1.7	0.91	16.1
M252337/M252310	247.65	381	74.613	74.613	57.15	6.4	3.2	854	1670	800	1100	69	267	294	351	363	6.4	3.2	0.33	1.8	0.99	29.7
HH249949/HH249910	247.65	406.4	115.888	117.475	93.662	6.4	6.4	1530	2920	800	1100	87.4	293	266	366	392	6.4	6.4	0.33	1.8	0.99	58.2
EE115097/115175	247.65	444.5	104.775	103.188	76.2	6.4	4.8	1560	2460	800	1100	85.3	267	296	395	412	6.4	4.8	0.35	1.73	0.95	65
EE515097/515237	247.65	603.25	160.338	158.75	122.238	6.4	9.5	3070	4210	800	1100	127.4	267	345	520	545	6.4	9.5	0.38	1.57	0.86	224
EE126098/126150	249.25	381	79.375	76.2	57.15	6.4	4.8	788	1470	800	1100	88.5	268	27.8	337	356	6.4	4.8	0.52	1.16	0.64	29.5
LL648449/LL648416	254	315.913	31.75	31.75	22.225	3.6	4.8	241	549	800	1100	54	267	268	295	301	3.6	4.8	0.43	1.39	0.77	4.99
29875/29819	254	317.5	22.225	22.225	15.875	1.5	1.5	153	380	800	1100	43.4	276	271	307	311	1.5	1.5	0.35	1.7	0.95	4.18
29875/29820	254	323.85	22.225	22.225	15.875	1.5	1.5	153	380	800	1100	43.4	276	271	310	315	1.5	1.5	0.35	1.7	0.95	4.57
HH249749/HH249710	254	358.775	71.438	71.438	53.975	3.5	3.3	760	1540	800	1100	64.6	284	267	335	348	3.5	3.3	0.33	1.8	0.99	21.5
EE134100/134143	254	365.125	58.738	58.738	42.862	6.4	6.4	580	1100	800	1100	64.2	289	272	339	354	6.4	6.4	0.37	1.6	0.88	18.4
EE134100/134145	254	368.3	58.738	58.738	42.862	6.4	6.4	580	1100	800	1100	64.2	289	272	340	356	6.4	6.4	0.37	1.6	0.88	19.1
EE275100/275155	254	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	800	1100	76.1	299	280	364	382	6.4	6.4	0.4	1.5	0.82	29.6
EE275100/275158	254	403.225	69.85	69.85	46.038	6.4	6.4	738	1540	700	1000	71.5	273	313	365	378	6.4	6.4	0.4	1.49	0.82	32.5
HM252343/HM252310	254	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	700	1000	78.7	273	309	384	399	6.7	3.2	0.33	1.8	0.99	42.7
HM252344/HM252310	254	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	700	1000	78.7	273	309	384	399	6.7	3.2	0.33	1.8	0.99	42.7
EE822100/822175	254	444.5	76.2	73.025	50.8	6.4	6.4	860	1380	700	1000	81	273	316	392	406	6.4	6.4	0.42	1.44	0.79	43
EE822100X/822175	254	444.5	76.2	76.2	50.8	6.4	6.4	860	1380	700	1000	81	273	316	392	406	6.4	6.4	0.42	1.44	0.79	43.6
EE251001/251575	254	400.05	57.15	55.562	41.275	3.3	1.5	635	1050	700	1000	61.2	291	276	372	381	3.3	1.5	0.33	1.8	1	24.3
EE275100/275160	254	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	700	1000	72.1	299	280	371	389	6.4	6.4	0.4	1.5	0.82	31.6
HM252343/HM252310	254	422.275	86.121	79.771	66.675	6.8	3.3	1140	1850	700	1000	77.6	301	278	392	408	6.8	3.3	0.33	1.8	0.99	43.2
HM252343/HM252315	254	431.724	82.55	79.771	60.325	6.8	3.5	1140	1850	700	1000	74.1	301	278	397	413	6.8	3.5	0.33	1.8	0.99	44.9
EE822100/822175	254	444.5	76.2	73.025	50.8	6.4	6.4	995	1500	700	1000	71.1	302	281	405	421	6.4	6.4	0.34	1.8	0.97	42.7
EE941002/941950	254	495.3	76.2	74.612	53.975	6.4	3.3	1080	1790	700	1000	85.1	327	304	455	471	6.4	3.3	0.4	1.5	0.83	64
HH258232/HH258210	254	495.3	141.288	141.288	114.3	6.4	6.4	2330	4670	700	1000	108.1	273	346	442	467	6.4	6.4	0.33	1.8	0.99	128

HH953749/HH953710	254	533.4	133.35	120.65	77.788	6.4	6.4	1840	2770	600	800	177.9	332	285	457	511	6.4	6.4	0.94	0.64	0.35	127
M349546XX/M349510	255.6	342.9	57.15	63.5	44.45	1.6	3.2	612	1280	700	1000	60.1	265	276	321	331	1.6	3.2	0.35	1.73	0.95	14.1
M349547/M349510	255.6	342.9	57.15	63.5	44.45	1.6	3.2	612	1280	700	1000	60.1	265	276	321	331	1.6	3.2	0.35	1.73	0.95	14.1
M349549/M349510	257.175	342.9	57.15	57.15	44.45	6.4	3.3	560	1190	850	1200	59.6	285	269	323	336	6.4	3.3	0.35	1.7	0.94	14.1
M249747/M249710	257.175	358.775	71.438	76.2	53.975	1.6	3.2	773	1590	850	1200	64.4	266	279	330	342	1.6	3.2	0.33	1.8	0.99	21
EE221018/221575	258.763	400.05	69.85	67.47	46.038	9.5	6.4	759	1280	850	1200	71.2	284	295	359	371	9.5	6.4	0.39	1.52	0.84	26.7
EE134102/134143	260.35	365.125	58.738	58.738	42.862	6.4	6.4	580	1100	850	1200	64.2	293	275	339	354	6.4	6.4	0.37	1.6	0.88	17.3
EE134102/134145	260.35	368.3	58.738	58.738	42.862	6.4	6.4	580	1100	850	1200	64.2	293	275	340	356	6.4	6.4	0.37	1.6	0.88	17.9
EE221026/221575	260.35	400.05	69.85	67.47	46.038	9.7	6.4	735	1220	800	1100	71.4	300	278	366	383	9.7	6.4	0.39	1.5	0.84	26.7
EE128102/128160	260.35	406.4	69.85	67.673	53.975	3.3	3.3	750	1430	800	1100	73.5	302	285	376	391	3.3	3.3	0.39	1.6	0.86	31.8
EE435102/435165	260.35	419.1	85.725	84.138	61.912	6.4	3.3	960	1820	800	1100	106	310	281	378	405	6.4	3.3	0.61	0.99	0.54	42.9
HM252348/HM252310	260.35	422.275	86.121	79.771	66.675	6.7	3.2	1010	1680	800	1100	78.7	280	309	384	399	6.7	3.2	0.33	1.8	0.99	41.2
HM252349/HM252310	260.35	422.275	86.121	79.771	66.675	6.8	3.3	1140	1850	800	1100	77.6	304	282	392	408	6.8	3.3	0.33	1.8	0.99	41.6
EE551026/551662	260.35	422.275	86.124	79.771	66.675	6.8	3.3	975	1590	800	1100	77.3	302	281	387	404	6.8	3.3	0.33	1.8	0.99	41
HM252348/HM252315	260.35	431.724	82.55	79.771	60.325	6.7	3.6	1010	1680	800	1100	75.2	280	309	385	398	6.7	3.6	0.33	1.8	0.99	42.9
HM252349/HM252315	260.35	431.724	82.55	79.771	60.325	6.8	3.5	1140	1850	800	1100	74.1	304	282	397	413	6.8	3.5	0.33	1.8	0.99	43.3
EE295102/295193	260.35	488.95	120.65	120.65	92.075	6.4	6.4	1720	2860	800	1100	92.8	325	297	445	469	6.4	6.4	0.31	1.9	1.1	93.8
LM451344/LM451310	262.975	355.6	57.15	62	44.45	3.6	3.2	605	1280	900	1300	62.3	276	287	332	343	3.6	3.2	0.36	1.67	0.92	15.7
38880/38820	263.525	325.438	28.575	28.575	25.4	1.5	1.5	228	555	900	1300	46.6	281	274	312	318	1.5	1.5	0.35	1.7	0.95	5.3
LM451345/LM451310	263.525	355.6	57.15	57.15	44.45	3.5	3.3	615	1260	850	1200	62.4	290	276	335	348	3.5	3.3	0.36	1.6	0.9	15.3
L853042/L853010	264.975	352.425	36.513	34.925	23.813	3.6	3.2	310	653	850	1200	71.2	278	295	329	338	3.6	3.2	0.54	1.11	0.61	8.82
LM451347/LM451310	264.975	355.6	57.15	62	44.45	3.6	3.2	605	1280	850	1200	62.3	278	287	332	343	3.6	3.2	0.36	1.67	0.92	15.3
29880/29820	266.7	323.85	22.225	22.225	15.875	1.5	1.5	153	380	850	1200	43.4	282	277	310	315	1.5	1.5	0.35	1.7	0.95	3.67
38885/38820	266.7	325.438	28.575	28.575	25.4	1.5	1.5	228	555	850	1200	46.6	283	276	312	318	1.5	1.5	0.35	1.7	0.95	5
38886/38820XX	266.7	325.438	28.575	33.47	25.4	1.6	1.6	217	7	850	1200	48.6	276	281	306	312	1.6	1.6	0.37	1.64	0.9	4.97
LM451349/LM451310	266.7	355.6	57.15	57.15	44.45	3.5	3.3	615	1260	850	1200	62.4	292	277	335	348	3.5	3.3	0.36	1.6	0.9	14.7
LM451349A/LM451311	266.7	355.6	57.15	57.15	44.4	10.4	3.2	605	1280	850	1200	62.3	294	287	332	343	10.4	3.2	0.36	1.67	0.92	14.5
EE275105/275155	266.7	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	850	1200	76.1	306	286	364	382	6.4	6.4	0.4	1.5	0.82	26.7
EE275105/275160	266.7	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	850	1200	72.1	306	286	371	389	6.4	6.4	0.4	1.5	0.82	28.8
HM252349A/HM252310	266.7	422.275	86.121	79.771	66.675	6.8	3.2	1010	1680	850	1200	78.7	286	309	384	399	6.8	3.2	0.33	1.8	0.99	39.5
EE551050/551700	266.7	431.724	82.55	79.771	60.325	6.7	3.6	980	1710	850	1200	74.3	286	304	375	388	6.7	3.6	0.33	1.8	0.99	40.9
EE551050/551662	266.7	422.275	86.124	79.771	66.675	6.8	3.3	975	1590	850	1200	77.3	306	284	387	404	6.8	3.3	0.33	1.8	0.99	39.4
H852849/H852810	266.7	444.5	120.65	117.475	88.9	6.4	6.4	1610	3050	850	1200	119.9	320	282	392	431	6.4	6.4	0.58	1	0.57	72
M252349/M252310	269.875	381	74.612	74.612	57.15	6.4	3.3	790	1590	850	1200	68.8	304	285	356	370	6.4	3.3	0.33	1.8	0.99	24.8
29888/29819	273.05	317.5	22.225	22.225	15.875	1.6	1.6	147	361	850	1200	43	282	284	304	307	1.6	1.6	0.35	1.73	0.95	2.61
EE275108/275155	273.05	393.7	73.817	69.85	50.005	6.4	6.4	700	1280	850	1200	76.1	309	290	364	382	6.4	6.4	0.4	1.5	0.82	25.2
EE275108/275160	273.05	406.4	69.85	69.85	46.038	6.4	6.4	700	1280	850	1200	72.1	309	290	371	389	6.4	6.4	0.4	1.5	0.82	27.3
L853048/L853010	275	352.425	36.513	40	23.813	3.6	3.2	310	653	850	1200	71.2	281	295	329	338	3.6	3.2	0.54	1.11	0.61	7.96
L853049/L853010	276.225	352.425	36.512	34.925	23.812	3.5	3.3	320	665	850	1200	72	300	288	333	344	3.5	3.3	0.54	1.1	0.62	7.85
LL352148/LL352111	279.4	317.5	22.225	22.86	17.653	1.6	1.6	151	422	850	1200	44	289	289	307	311	1.6	1.6	0.35	1.73	0.95	2.37
LL352149/LL352110	279.4	317.5	24.384	24.384	18.288	1.6	1.6	151	422	850	1200	44.7	289	289	307	311	1.6	1.6	0.35	1.73	0.95	2.52
L555233/L555210	279.4	374.65	47.625	47.625	34.925	3.6	3.2	468	971	850	1200	64.7	293	309	352	361	3.6	3.2	0.4	1.49	0.82	14
EE722110/722185	279.4	469.9	95.25	93.662	69.85	9.7	3.3	1180	2060	850	1200	87.2	336	308	431	451	9.7	3.3	0.38	1.6	0.87	60.9
EE295110/295193	279.4	488.95	120.65	120.65	92.075	1.3	6.4	1720	2860	850	1200	92.8	329	307	445	469	1.3	6.4	0.31	1.9	1.1	86.2
LM654642/LM654611	279.982	380.009	65.088	65.088	49.212	3.6	3.2	664	1410	850	1200	75.9	293	307	356	370	3.6	3.2	0.43	1.39	0.77	20
LM654642/LM654610	279.982	380.898	65.088	65.088	49.212	3.5	3.3	660	1550	850	1200		302	298	356	368	3.5	3.3	0.43	1.39	0.76	19
EE128112/128160	280	6.4	69.85	67.673	53.975	6.4	3.2	767	1470	850	1200	75	299	311	369	383	6.4	3.2	0.39	1.56	0.86	27.7
EE101103/101575	280.192	400.05	52.388	0.211	34.925	6.7	3.2	521	991	850	1200	67.7	300	317	366	375	6.7	3.2	0.41	1.48	0.81	18.7
EE101103/101600	280.192	406.4	52.388	50.211	34.925	6.8	3.3	520	870	850	1200	68.1	315	299	380	391	6.8	3.3	0.41	1.5	0.81	18.9
EE128110/128160	280.192	406.4	69.85	67.673	53.975	6.7	3.2	767	1470	850	1200	75	300	311	369	383	6.7	3.2	0.39	1.56	0.86	27.6
EE128111/128160	280.192	406.4	69.85	67.673	53.975	6.8	3.3	750	1430	850	1200	73.5	316	295	376	391	6.8	3.3	0.39	1.6	0.86	27.2
EE128111/128161	280.192	409.981	69.85	67.673	53.975	6.8	3.3	750	1430	850	1200	73.5	316	295	377	393	6.8	3.3	0.39	1.6	0.86	28.2
545112/545139	285.75	354.013	33.338	31.75	22.225	3.6	3.2	240	537	850	1200	65.8	299	308	337	344	3.6	3.2	0.49	1.23	0.68	6.3
545112/545141	285.75	358.775	33.338	31.75	22.225	3.5	3.3	252	575	850	1200	66.3	307	298	339	348	3.5	3.3	0.49	1.2	0.67	7.09

LM654649/LM654610	285.75	380.898	65.088	65.088	49.212	3.5	3.3	615	1490	850	1200	76.1	316	300	355	371	3.5	3.3	0.43	1.4	0.77	20
EE921124/921850	285.75	469.9	81.77	80.569	57.15	9.7	3.3	1100	1810	850	1200	69.4	338	315	438	451	9.7	3.3	0.29	2.1	1.1	49.4
M255499/M255410A	288.925	406.4	77.788	77.788	60.325	6.4	3.3	1010	2080	850	1200		316	310	379	388	6.4	3.3	0.34	1.78	0.98	29.8
M255449/M255410	288.925	406.4	77.788	77.788	60.325	6.4	3.3	895	1830	850	1200	72.8	324	304	380	395	6.4	3.3	0.34	1.8	0.98	29.8
M255448/M255411	288.925	406.949	77.907	77.788	61	9.5	3.6	1010	2210	850	1200	73.3	314	318	374	388	9.5	3.6	0.34	1.77	0.98	31.1
L357040/L357010	289.975	393.7	50.8	50.8	38.1	6.4	3.2	524	1180	850	1200	64.8	309	329	369	378	6.4	3.2	0.36	1.67	0.92	17.4
L555249/L555210	292.1	374.65	47.625	47.625	34.925	3.5	3.3	490	1060	800	1100	64.5	316	303	355	366	3.5	3.3	0.4	1.5	0.82	12.5
84115/84155	292.1	393.7	63.5	50.8	44.45	3.5	6.4	545	1120	800	1100	99.8	323	305	364	383	3.5	6.4	0.61	0.99	0.54	18.6
EE722115/722185	292.1	469.9	95.25	93.662	69.85	9.7	3.3	1180	2060	800	1100	87.2	342	315	431	451	9.7	3.3	0.38	1.6	0.87	56.7
EE224115/224200	292.1	508	106.363	107.95	74.613	6.4	3.2	1480	2540	800	1100	88.5	311	362	453	469	6.4	3.2	0.33	1.84	1.01	82.5
EE790114/790221	292.1	558.8	136.525	136.525	98.425	6.4	6.4	2480	4100	700	1000	113.5	362	332	506	537	6.4	6.4	0.39	1.5	0.84	147
EE790116/790221	292.1	558.8	136.525	136.525	98.425	19.8	6.4	2350	4000	700	1000	114.2	338	366	488	510	19.8	6.4	0.4	1.52	0.84	142
EE111175/111700	298.45	431.8	69.85	58.738	53.975	6.4	3.3	755	1400	700	1000	88.1	336	316	400	417	6.4	3.3	0.44	1.4	0.75	29.2
EE291175/291749	298.45	444.5	63.5	61.912	39.688	8	3.3	685	1140	700	1000	71.8	339	319	415	427	8	3.3	0.38	1.6	0.87	28.7
EE291175/291750	298.45	444.5	63.5	61.912	39.688	8	1.5	685	1140	700	1000	71.8	339	319	417	427	8	1.5	0.38	1.6	0.87	28.7
HH258248/HH258210	299.975	495.3	141.288	141.288	114.3	6.4	6.4	2330	4670	700	1000	108.1	319	346	442	467	6.4	6.4	0.33	1.8	0.99	106
HH258248/HH258210	300	495.3	141.288	141.288	114.3	6.4	6.4	2330	4550	630	850	106	330	341	464	468	6	6	0.33	1.8	1	107
HM256849/HM256810	300.038	422.275	82.55	82.55	63.5	6.4	3.3	990	2050	630	850	76.7	337	317	395	411	6.4	3.3	0.34	1.8	0.98	34.2
L357049/L357010	304.8	393.7	50.8	50.8	38.1	6.4	3.3	530	1140	630	850	63.7	334	318	374	385	6.4	3.3	0.36	1.7	0.92	14.5
LM757049/LM757010	304.8	406.4	63.5	63.5	47.625	6.4	3.3	690	1490	630	850	79.4	337	317	380	396	6.4	3.3	0.44	1.4	0.75	21.4
EE129120X/129172	304.8	438.048	76.2	76.992	53.975	6.4	4.8	788	1610	630	850	82	325	343	401	415	6.4	4.8	0.4	1.49	0.82	34.4
EE291201/291749	304.8	444.5	63.5	61.912	39.688	8	3.3	685	1140	630	850	71.8	342	323	415	427	8	3.3	0.38	1.6	0.87	27.3
EE291201/291750	304.8	444.5	63.5	61.912	39.688	8	1.5	685	1140	630	850	71.8	342	323	417	427	8	1.5	0.38	1.6	0.87	27.3
EE724119/724191	304.8	488.95	92.075	92.075	63.5	16	3.2	1270	2340	630	850	92	344	359	439	456	16	3.2	0.4	1.49	0.82	60.4
EE724120/724191	304.8	488.95	92.075	92.075	63.5	16	3.2	1270	2340	630	850	92	344	359	439	456	16	3.2	0.4	1.49	0.82	60.4
EE941205/941950	304.8	495.3	76.2	74.612	53.975	6.4	3.3	1080	1790	630	850	85.1	352	329	455	471	6.4	3.3	0.4	1.5	0.83	51
EE941205/941950A	304.8	495.3	76.2	74.612	53.975	6.4	3.3	1140	1940	630	850		339	329	459	463	6.4	3.3	0.4	1.49	0.82	55.8
EE941205X/941950	304.8	495.3	76.2	77.866	53.975	6.4	3.2	1020	1610	630	850	88.1	325	355	441	455	6.4	3.2	0.4	1.49	0.82	50.7
EE724119/724195	304.8	495.3	95.25	92.075	69.85	16	6.4	1270	2340	630	850	95.2	344	359	439	474	16	6.4	0.4	1.49	0.82	64.8
EE724120/724195	304.8	495.3	95.25	92.075	69.85	16	6.4	1240	2150	630	850	93.9	364	329	451	474	16	6.4	0.4	1.5	0.82	63.3
M959442/M959410	304.8	499.948	101.6	79.375	53.975	6.4	6.4	1190	2030	630	850	203	367	327	444	487	6.4	6.4	1.2	0.51	0.28	67.6
EE790120/790221	304.8	558.8	136.525	136.525	98.425	1.3	6.4	2480	4100	630	850	113.5	364	338	506	537	1.3	6.4	0.39	1.5	0.84	141
LM757049A/LM757010	305.054	406.4	63.5	63.5	47.625	6	3.2	748	1580	630	850	79.6	325	323	376	390	6.4	3.2	0.44	1.36	0.75	21.2
H859049/H859010	314.325	495.3	120.65	119.062	88.9	6.4	6.4	1710	3300	630	850	125.3	368	335	446	484	6.4	6.4	0.55	1.1	0.6	83.8
EE291250/291750	317.5	444.5	63.5	61.912	39.688	8	1.5	685	1140	630	850	71.8	349	329	417	427	8	1.5	0.38	1.6	0.87	24.3
EE291251/291750	317.5	444.5	63.5	61.913	39.688	15	1.6	721	1380	630	850	70	355	346	404	414	15	1.6	0.38	1.59	0.87	25.7
EE291250/291749	317.5	444.5	63.5	61.912	39.688	8	3.3	685	1140	630	850	71.8	349	329	415	427	8	3.3	0.38	1.6	0.87	24.2
HM259048/HM259010	317.5	447.675	85.725	85.725	68.262	3.6	3.2	1060	2330	630	850	79.7	332	352	411	426	3.6	3.2	0.33	1.8	0.99	40.9
HM259049/HM259010	317.5	447.675	85.725	85.725	68.262	3.5	3.3	1120	2350	630	850	80.1	353	333	418	435	3.5	3.3	0.33	1.8	0.99	40.4
EE720125/720236	317.5	596.9	136.525	136.525	98.425	19.8	6.4	2480	4110	600	800	119.6	364	389	520	545	19.8	6.4	0.42	1.42	0.78	161
H961649/H961610	317.5	622.3	147.638	131.762	82.55	14.3	12.7	2270	3800	600	800	206.4	414	358	535	597	14.3	12.7	0.94	0.64	0.35	184
LL758744/LL758715	323.85	381	28.575	28.575	20.638	3.6	3.3	219	570	670	900	64.8	338	340	363	369	3.6	3.3	0.44	1.36	0.75	5.15
EE720128/720236	325.438	596.9	136.525	136.525	98.425	6.4	6.4	2480	4110	630	850	119.6	345	389	520	545	6.4	6.4	0.42	1.42	0.78	158
EE971298/972100	329.87	533.4	76.2	76.2	50.8	4.7	3.3	1060	1800	630	850	78.4	383	364	497	510	4.7	3.3	0.33	1.8	0.99	58.5
L860048/L860010	330.2	415.925	47.625	47.625	34.925	12.7	3.3	505	1150	630	850	83	365	342	394	408	12.7	3.3	0.5	1.2	0.66	14.3
L860049/L860010	330.2	415.925	47.625	47.625	34.925	3.5	3.3	505	1150	630	850	83	356	342	394	408	3.5	3.3	0.5	1.2	0.66	14.6
EE161300/161850	330.2	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	377	358	441	459	7	6.4	0.5	1.2	0.66	30.1
EE161300/161900	330.2	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	377	358	447	464	7	6.4	0.5	1.2	0.66	32.9
EE203130/203190	330.2	482.6	66.675	63.5	44.45	6.8	6.8	810	1560	630	850	84.9	377	358	450	467	6.8	6.8	0.42	1.4	0.79	36.4
EE526130/526190	330.2	482.6	85.725	80.167	60.325	6.4	3.3	995	1830	630	850	88.9	370	348	447	465	6.4	3.3	0.39	1.5	0.85	44.9
EE526132/526190	330.2	482.6	85.725	80.167	60.325	3.3	3.3	995	1830	630	850	88.9	367	348	447	465	3.3	3.3	0.39	1.5	0.85	45
EE161300/161925	330.2	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	377	358	451	468	7	6.4	0.5	1.2	0.66	34.3
HM261049/HM261010	333.375	469.9	90.488	90.488	71.438	6.4	3.3	1340	2850	630	850	85	365	362	438	452	6	3	0.33	1.8	1	47
LM361649/LM361610	342.9	450.85	66.675	66.675	52.388	8.5	3.5	805	1840	670	900	75.8	379	359	426	441	8.5	3.5	0.35	1.7	0.94	27.2

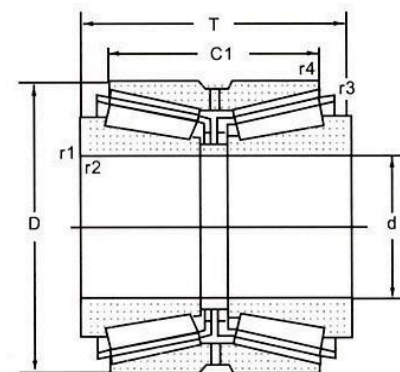
LM961548/LM961510	342.9	457.098	66.675	63.5	46.038	3.2	3.2	729	1670	670	900	122.3	356	365	421	443	3.2	3.2	0.71	0.84	0.46	28.2
LM961548/LM961511	342.9	457.098	68.262	63.5	47.625	3.3	3.3	705	1640	670	900		367	363	423	443	3.3	3.3	0.71	0.84	0.46	30
EE971354/972100	342.9	533.4	76.2	76.2	50.8	4.7	3.3	1060	1800	670	900	78.4	390	371	497	510	4.7	3.3	0.33	1.8	0.99	54.4
EE161363/161850	346.075	469.9	60.325	55.562	38.1	7	6.4	710	1420	670	900	92.7	385	366	441	459	7	6.4	0.5	1.2	0.66	26.4
EE161363/161900	346.075	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	385	366	447	464	7	6.4	0.5	1.2	0.6	29.2
EE203136/203190	346.075	482.6	66.675	63.5	44.45	6.8	6.8	810	1560	630	850	84.9	385	366	450	467	6.8	6.8	0.42	1.4	0.79	32.2
EE203137/203190	346.075	482.6	66.675	63.5	44.45	12.7	6.8	810	1560	630	850	84.9	391	366	450	467	12.7	6.8	0.42	1.4	0.79	32
EE161363/161925	346.075	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	385	366	451	468	7	6.4	0.5	1.2	0.66	30.7
HM262748/HM262710	346.075	488.95	95.25	95.25	74.613	6.4	3.2	1350	2900	630	850	88.5	366	381	450	467	6.4	3.2	0.33	1.79	0.99	53.3
HM262749/HM262710	346.075	488.95	95.25	95.25	74.612	6.4	3.3	1250	2600	630	850	87.8	386	364	457	475	6.4	3.3	0.33	1.8	0.99	52.9
EE333137/333197	349.25	501.65	90.488	84.138	69.85	6.4	3.3	1320	2720	630	850	95	394	371	470	488	6.4	3.3	0.37	1.6	0.9	55.8
EE161394/161850	354.012	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	389	370	441	459	7	6.4	0.5	1.2	0.66	24.5
EE161394/161900	354.012	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	389	370	447	464	7	6.4	0.5	1.2	0.66	27.3
EE161394/161925	354.012	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	389	370	451	468	7	6.4	0.5	1.2	0.66	28.8
L163149/L163110	355.6	444.5	60.325	60.325	47.625	3.5	3.3	660	1660	630	850	67.9	381	369	423	435	3.5	3.3	0.31	2	1.1	20.6
EE161400/161850	355.6	469.9	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	390	370	441	459	7	6.4	0.5	1.2	0.66	24.1
EE161400/161900	355.6	482.6	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	390	370	447	464	7	6.4	0.5	1.2	0.66	26.9
EE161400/161925	355.6	488.95	60.325	55.562	38.1	7	6.4	710	1420	630	850	92.7	390	370	451	468	7	6.4	0.5	1.2	0.66	28.4
EE231400/231975	355.6	501.65	74.612	66.675	50.8	6.4	3.3	795	1640	630	850	97	403	382	472	489	6.4	3.3	0.44	1.4	0.75	40.5
EE333140/333197	355.6	501.65	90.488	84.138	69.85	6.4	3.3	1320	2720	630	850	95	397	374	470	488	6.4	3.3	0.37	1.6	0.9	53.5
EE231400/232025	355.6	514.35	74.612	66.675	50.8	6.4	3.3	795	1640	630	850	97	403	382	478	495	6.4	3.3	0.44	1.4	0.75	44.6
EE121140/121265	355.6	673.1	152.4	152.4	114.3	16	6.4	3400	5490	630	850	229.9	395	436	595	620	16	6.4	0.38	1.59	0.88	234
LL562749/LL562710	361.95	406.4	23.812	23.812	17.462	2.3	1.5	173	470	630	850		372	371	396	401	2.3	1.5	0.4	1.49	0.82	3.56
HM265049/HM265010	368.249	523.875	101.6	101.6	79.375	6.4	6.4	1590	3390	600	800	94	388	407	484	500	6.4	6.4	0.33	1.8	0.99	56.6
EE181453/182350	368.3	596.9	95.25	92.075	60.325	9.7	6.4	1670	2870	600	800	102.6	428	403	549	570	9.7	6.4	0.41	1.5	0.8	92.7
EE321145/321240	368.3	609.6	142.875	139.7	111.125	8	6.4	2460	4600	600	800	118.9	431	401	556	587	8	6.4	0.36	1.7	0.93	154
EE231462/231975	371.475	501.65	74.612	66.675	50.8	6.4	3.3	795	1640	600	800	97	411	390	472	489	6.4	3.3	0.44	1.4	0.75	35.8
EE231462/232025	371.475	514.35	74.612	66.675	50.8	6.4	3.3	795	1640	600	800	97	411	390	478	495	6.4	3.3	0.44	1.4	0.75	39.8
LL264648/LL264610	374.65	431.8	28.575	28.575	20.638	3.6	3.2	222	622	600	800	56.9	389	393	415	419	3.6	3.2	0.33	1.8	0.99	6.02
LM565943/LM565910	374.65	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	417	393	490	508	6.4	3.3	0.39	1.6	0.86	51.3
EE192148/192200	377.825	508	63.5	58.738	38.1	6.4	3.3	725	1490	600	800	103.9	418	397	480	495	6.4	3.3	0.53	1.1	0.62	31.1
LM565946/LM565910	377.825	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	418	395	490	508	6.4	3.3	0.39	1.6	0.86	50
LM565946/LM565912	377.825	523.875	85.725	84.138	61.913	6.4	3.2	1170	2590	600	800	92.8	398	414	481	497	6.4	3.2	0.38	1.56	0.86	51.9
L865547/L865512	381	479.425	49.212	47.625	34.925	6.4	3.3	585	1310	600	800	92	412	394	456	469	6.4	3.3	0.49	1.2	0.67	18.9
L865548/L865512	381	479.425	49.213	47.625	34.925	12.7	3.2	595	1280	600	800	91.4	413	405	454	466	12.7	3.2	0.49	1.23	0.68	18.6
EE192150/192200	381	508	63.5	58.738	38.1	6.4	3.3	725	1490	600	800	103.9	420	399	480	495	6.4	3.3	0.53	1.1	0.62	30.3
LM565949/LM565910	381	522.288	85.725	84.138	61.912	6.4	3.3	1210	2550	600	800	92.9	420	396	490	508	6.4	3.3	0.39	1.6	0.86	48.8
LM565949/LM565912	381	523.875	85.725	84.138	61.913	6.4	3.2	1170	2590	600	800	92.8	401	414	481	497	6.4	3.2	0.38	1.56	0.86	50.7
HM266446/HM266410	381	546.1	104.775	104.775	82.55	6.4	6.4	1900	4210	600	800	97.6	401	421	505	515	6.4	6.4	0.33	1.8	0.99	79.5
HM266447/HM266410	381	546.1	104.775	104.775	82.55	6.4	6.4	1840	4000	600	800	97.5	428	405	508	531	6.4	6.4	0.33	1.8	0.99	78.3
M268730/M268710	381	590.55	114.3	114.3	88.9	6.4	6.4	1980	4470	600	800	103.7	401	459	545	560	6.4	6.4	0.33	1.8	0.99	116
LL365348/LL365310	384.175	441.325	28.575	28.575	20.638	3.5	3.3	247	655	560	750	59.2	402	394	427	435	3.5	3.3	0.34	1.8	0.97	6.33
LL365347/LL365310	384.175	441.325	28.575	31.75	20.638	3.6	3.2	236	612	560	750	58.6	398	398	424	428	3.6	3.2	0.34	1.76	0.97	5.66
HM266448/HM266410	384.175	546.1	104.775	104.775	82.55	6.4	6.4	1900	4210	560	750	97.6	404	421	505	515	6.4	6.4	0.33	1.8	0.99	78
HM266449/HM266410	384.175	546.1	104.775	104.775	82.55	6.4	6.4	1840	4000	560	750	97.5	429	407	508	531	6.4	6.4	0.33	1.8	0.99	76.7
LM665949/LM665910	385.762	514.35	82.55	82.55	63.5	6.4	3.3	1180	2610	560	750	99	424	401	485	504	6.4	3.3	0.42	1.4	0.79	45.2
M667935/M667910	387.248	546.1	87.313	87.313	66.675	6.4	6.4	1330	2870	560	750	105.1	407	438	510	525	6.4	6.4	0.42	1.44	0.79	61.6
M667935/M667911G2	387.248	546.1	87.312	87.312	68.262	6.4	6.4	1390	3150	560	750		424	414	510	528	6.4	6.4	0.42	1.43	0.79	56.6
EE234154/234215	393.7	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	600	800	112.9	438	417	507	529	6.4	6.4	0.48	1.3	0.69	44.8
EE234154/234220	393.7	558.8	65.088	61.119	44.45	6.4	6.4	815	1650	600	800	101.8	438	417	516	536	6.4	6.4	0.48	1.3	0.69	44.3
EE234156/234215	396.875	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	600	800	112.9	439	419	507	529	6.4	6.4	0.48	1.3	0.69	43.9
LM567943/LM567910	396.875	549.275	85.725	84.138	61.912	6.4	3.3	1260	2720	600	800	101.1	442	420	517	535	6.4	3.3	0.41	1.5	0.81	57.1
EE234156/234220	396.875	558.8	65.088	61.12	44.45	6.4	6.4	815	1650	600	800	101.8	439	419	516	536	6.4	6.4	0.48	1.3	0.69	43.4
LL566848/LL566810	403.225	460.375	28.575	28.575	20.638	3.5	3.3	246	765	600	800	70	420	417	443	448	3	3	0.4	1.5	0.8	6.7

L467549/L467510	406.4	508	61.912	61.912	47.625	3.3	3.3	800	1960	560	750	83.3	435	420	484	498	3.3	3.3	0.37	1.6	0.9	27.6
EE234160/234215	406.4	546.1	76.2	61.12	55.562	6.4	6.4	815	1650	560	750	112.9	444	424	507	529	6.4	6.4	0.48	1.3	0.69	44.3
M667944/M667911	406.4	546.1	87.313	87.313	68.263	6.4	6.4	1330	2870	560	750	105.1	427	438	510	525	6.4	6.4	0.42	1.44	0.79	53.7
LM567949/LM567910	406.4	549.275	85.725	84.138	61.912	6.4	3.3	1260	2720	530	700	101.1	447	425	517	535	6.4	3.3	0.41	1.5	0.81	53.2
EE234160/234220	406.4	558.8	65.088	61.12	44.45	6.4	6.4	815	1650	530	700	101.8	444	424	516	536	6.4	6.4	0.48	1.3	0.69	43.8
EE285160/285226	406.4	574.675	76.2	67.866	50.8	6.8	3.3	920	1850	530	700	114	453	429	534	552	6.8	3.3	0.5	1.2	0.66	53.2
EE833160X/833232	406.4	590.55	107.95	107.95	80.963	9.5	6.4	1780	3540	530	700	100	433	453	545	560	9.5	6.4	0.32	1.85	1.02	89.7
EE736160/736238	406.4	609.524	82.55	79.375	60.325	7.9	6.4	1520	3030	530	700	95.9	430	476	565	570	7.9	6.4	0.35	1.73	0.95	76.2
EE911600/912400	406.4	609.6	92.075	84.138	60.325	6.7	6.4	1430	2640	530	700	105.6	428	466	555	570	6.7	6.4	0.38	1.57	0.86	80.1
EE571602/572650	406.4	673.1	88.9	87.833	60.325	6.4	3.3	1750	3100	530	700	110	479	457	629	647	6.4	3.3	0.4	1.5	0.83	119
H969249/H969210	406.4	762	180.975	161.925	107.95	12.7	12.7	3690	6100	380	500	250	446	467	723	723	12	12	0.94	0.64	0.35	320
M667947/M667911	409.575	546.1	87.313	87.312	68.263	6.4	6.4	1330	2870	380	500	105.1	430	438	510	525	6.4	6.4	0.42	1.44	0.79	52.4
M667948/M667911	409.575	546.1	87.312	87.312	68.262	6.4	6.4	1350	3050	380	500		440	431	510	528	6.4	6.4	0.42	1.43	0.79	49.8
M667948/M667910	409.575	546.1	87.313	87.313	66.675	6.4	6.4	1330	2870	380	500	105.1	430	438	510	525	6.4	6.4	0.42	1.44	0.79	52.2
EE285162/285226	409.575	574.675	76.2	67.866	50.8	6.8	3.3	920	1850	380	500	114	455	431	534	552	6.8	3.3	0.5	1.2	0.66	52.1
EE911618/912400	411.162	609.6	92.075	84.138	60.325	6.8	6.4	1470	2750	500	670	103.9	461	440	566	586	6.8	6.4	0.38	1.6	0.86	80.7
M268749/M268710	415.925	590.55	114.3	114.3	88.9	6.4	6.4	1860	4250	500	670	105	437	459	545	560	6.4	6.4	0.34	1.8	1	94.5
M268749/M268710	415.925	590.55	114.3	114.3	88.9	6.4	6.4	2120	4800	500	670	104	448	453	560	563	6	6	0.33	1.8	1	120
EE328167/328269	425.45	685.698	142.875	142.8	104.775	12.7	6.4	3050	5700	500	670	135.1	497	462	630	661	12.7	6.4	0.4	1.5	0.83	193
EE241693/242375	430.212	603.25	76.2	73.025	50.8	6.4	6.4	1240	2250	500	670	122.1	479	457	564	585	6.4	6.4	0.52	1.1	0.63	62
EE80385/80325	431.8	533.4	46.038	46.038	34.925	3.3	3.3	580	1380	500	670	69.3	458	447	511	521	3.3	3.3	0.31	2	1.1	20.8
80170/80217	431.8	552.45	44.45	44.45	31.75	3.3	3.3	610	1480	500	670	71	467	456	530	538	3.3	3.3	0.32	1.9	1	25.8
EE239170/239225	431.8	571.5	73.025	73.025	53.975	3.2	3.2	980	2150	500	670	96.5	446	469	535	540	3.2	3.2	0.38	1.57	0.86	45.6
80170/80222	431.8	565.15	44.45	44.45	31.75	3.3	3.3	610	1480	500	670	71	467	456	536	545	3.3	3.3	0.32	1.9	1	28.6
LM869448/LM869410	431.8	571.5	74.612	74.612	52.388	3.3	3.3	1080	2350	500	670	122.6	471	448	539	560	3.3	3.3	0.55	1.1	0.6	47.9
EE239170/239225A	431.8	571.5	76.2	73.025	57.15	3.2	3.2	980	2150	500	670	99.7	446	469	535	540	3.2	3.2	0.38	1.57	0.86	46.8
BT1B328284/HA1	431.8	571.5	89.694	89.77	66.75	6.4	6.4	1450	3450	500	670	111	464	460	540	550	6	6	0.44	1.35	0.8	60
EE241701/242375	431.8	603.25	76.2	73.025	50.8	6.4	6.4	1240	2500	480	600	122.1	480	458	564	585	6.4	6.4	0.52	1.1	0.63	61.4
EE571703/572650	431.8	673.1	88.9	87.833	60.325	6.4	3.3	1750	3100	480	600	110	491	469	629	647	6.4	3.3	0.4	1.5	0.83	108
EE737173/737260	441.325	660.4	91.28	85.725	62.705	10.4	6.4	1350	2630	480	600	109.5	470	510	600	610	10.4	6.4	0.37	1.6	0.88	95.5
M270744/M270710	444.5	635	120.65	120.65	95.25	6.4	6.4	2290	5250	480	600	113.8	465	495	585	600	6.4	6.4	0.33	1.8	0.99	120
80176/80217	447.675	552.45	44.45	44.45	31.75	3.3	3.3	610	1480	480	600	71	475	464	530	538	3.3	3.3	0.32	1.9	1	22
80176/80222	447.675	565.15	44.45	44.45	31.75	3.3	3.3	610	1480	480	600	71	475	464	536	545	3.3	3.3	0.32	1.9	1	24.8
M270749/M270710	447.675	635	120.65	120.65	95.25	6.4	6.4	1900	4350	450	600	114.6	502	474	591	617	6.4	6.4	0.33	1.8	0.99	117
LM770945/LM770910	450.85	603.25	85.725	84.138	60.325	6.4	3.3	1310	2900	450	600	115.9	496	471	570	590	6.4	3.3	0.45	1.3	0.73	62.5
EE737179X/737262	456.692	660.4	92.075	91.262	63.5	6.4	6.4	1350	2630	450	600	110.3	478	510	600	610	6.4	6.4	0.37	1.6	0.88	90.5
EE425179A/425299	456.794	761.873	142.875	142.875	101.6	16	6.4	3240	5610	450	600	154.5	497	530	685	710	16	6.4	0.44	1.35	0.74	242
L570648/L570610	457.073	573.088	74.613	74.612	57.15	6.4	6.4	1100	2930	450	600	100.4	478	484	540	550	6.4	6.4	0.4	1.49	0.82	42.8
80180/80217	457.2	552.45	44.45	44.45	31.75	3.3	3.3	615	1340	450	600		474	471	531	536	3.3	3.3	0.32	1.88	1.04	18.7
L570649/L570610	457.2	573.088	74.612	74.612	57.15	6.4	6.4	1020	2610	500	670	101.2	493	472	542	562	6.4	6.4	0.4	1.5	0.83	42
EE244180/244235	457.2	596.9	76.2	73.025	53.975	9.5	3.3	1040	2360	500	670	102	500	475	565	580	9.5	3.3	0.4	1.5	0.82	49.9
LM770949/LM770910	457.2	603.25	85.725	84.138	60.325	6.4	3.3	1310	2900	480	630	115.9	499	474	570	590	6.4	3.3	0.45	1.3	0.73	59.5
LM272235/LM272210	457.2	615.95	85.725	85.725	66.675	6.4	6.4	1470	3800	450	600	98	489	512	584	596	6	6	0.33	1.8	1	72
EE737181/737260	457.2	660.4	91.28	85.725	62.705	10.4	6.4	1550	2780	450	600	106.9	507	479	615	636	10.4	6.4	0.37	1.6	0.88	86.2
EE737181/737262	457.2	660.4	92.075	85.725	63.5	10.4	6.4	1350	2630	450	600	110.3	486	510	600	610	10.4	6.4	0.37	1.6	0.88	88.5
EE671801/672873	457.2	730.148	120.65	114.3	82.55	9.5	6.4	2420	4120	450	600	128.9	484	520	660	680	9.5	6.4	0.39	1.53	0.84	163
LL771948/LL771911	476.25	565.15	41.275	41.275	31.75	3.3	3.3	535	1340	450	600	100.2	502	489	545	557	3.3	3.3	0.47	1.3	0.7	18.2
M272749/M272710	479.425	679.45	128.588	128.588	101.6	6.4	6.4	2800	6400	450	600	121.1	535	504	635	663	6.4	6.4	0.34	1.8	0.97	148
80480/80425	482.6	615.95	53.975	46.038	41.275	3.3	3.3	780	1700	450	600	90	516	503	588	600	3.3	3.3	0.35	1.7	0.95	35.2
LM272249/LM272210	482.6	615.95	85.725	85.725	66.675	6.4	6.4	1390	3450	450	600	106.1	522	501	582	604	6.4	6.4	0.37	1.6	0.88	59.8
EE243190/243250	482.6	634.873	80.962	80.962	63.5	6.4	3.3	1340	3300	450	600	99.1	530	508	606	622	6.4	3.3	0.34	1.8	0.97	67.6
EE640191/640260	488.671	660.4	93.662	94.458	69.85	6.4	6.4	1700	3800	450	600	98.2	535	511	624	643	6.4	6.4	0.31	2	1.1	87.7
LM772748/LM772710	488.95	634.873	84.138	84.138	61.912	6.4	3.3	1370	3200	450	600	124.7	532	508	602	623	6.4	3.3	0.47	1.3	0.7	63.9
EE640192/640260	488.95	660.4	93.662	94.458	69.85	6.4	6.4	1700	3800	450	600	98.2	535	511	624	643	6.4	6.4	0.31	2	1.1	87.6

EE243192/243250	489.026	634.873	80.962	80.962	63.5	6.4	3.3	1340	3300	450	600	99.1	533	512	606	622	6.4	3.3	0.34	1.8	0.97	64.5
EE243197/243250	498.323	634.873	80.963	80.962	63.5	6.4	3.2	1320	3290	450	600	100	520	530	595	605	6.4	3.2	0.34	1.75	0.96	58.7
EE243196AX/243250	498.399	634.873	80.962	80.962	63.5	6.4	3.3	1470	3650	450	600	100	530	522	616	610	6	3	0.35	1.7	0.9	60
EE243196/243250	498.475	634.873	80.962	80.962	63.5	6.4	3.3	1340	3300	450	600	99.1	538	516	606	622	6.4	3.3	0.34	1.8	0.97	59.9
EE243196AS/243250	498.653	634.873	80.962	80.962	63.5	6.4	3.3	1470	3650	450	600	100	530	522	616	610	6	3	0.35	1.7	0.9	59.5
M274149/M274110	501.65	711.2	136.525	136.525	106.363	6.4	6.4	2800	6410	450	600	126.8	525	550	655	675	6.4	6.4	0.33	1.8	0.99	164
EE981992/982900	505.968	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	450	600	134.9	571	547	693	712	6.4	3.3	0.48	1.3	0.69	114
EE982003/982900	508	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	450	600	134.9	572	548	693	712	6.4	3.3	0.48	1.3	0.69	113
EE426200/426330	508	838.2	146.03	139.7	104.775	9.5	9.5	3320	5860	400	530	170.6	540	590	755	780	9.5	9.5	0.48	1.26	0.69	
EE982028/982900	514.35	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	400	530	134.9	576	551	693	712	6.4	3.3	0.48	1.3	0.69	109
EE982051/982900	520.7	736.6	88.9	81.758	53.975	6.4	3.3	1620	3400	400	530	134.9	579	554	693	712	6.4	3.3	0.48	1.3	0.69	106
LL575343/LL575310	533.4	635	50.8	50.8	38.1	6.4	6.4	705	1800	400	530	101.4	566	549	610	626	6.4	6.4	0.4	1.5	0.82	28.2
EE522102/523087	533.4	784.225	88.9	82.55	53.975	6.4	6.4	1750	3500	380	500	139.5	596	573	730	752	6.4	6.4	0.48	1.3	0.69	129
M276449/M276410	536.575	761.873	146.05	146.05	114.3	6.4	6.4	3360	8000	380	500	134	564	582	726	735	6	6	0.33	1.8	1	208
LL575349/LL575310	539.75	635	50.8	50.8	38.1	6.4	6.4	705	1800	430	560	101.4	569	552	610	626	6.4	6.4	0.4	1.5	0.82	26.1
EE542215/542290	546.1	736.6	76.2	76.2	50.8	6.4	6.4	1280	2590	400	530	142.2	598	574	695	715	6.4	6.4	0.51	1.2	0.65	79.7
L476549/L476510	549.275	692.15	80.962	80.962	61.912	6.4	6.4	1430	3550	560	750	113.1	591	568	658	679	6.4	6.4	0.38	1.6	0.88	67.4
EE542220/542290	558.8	736.6	76.2	76.2	50.8	6.4	6.4	1280	2590	380	500	142.2	604	581	695	715	6.4	6.4	0.51	1.2	0.65	73.2
EE843220/843290	558.8	736.6	88.108	88.108	63.5	6.4	6.4	1750	3900	380	500	111.3	606	585	699	718	6.4	6.4	0.34	1.8	0.97	93.7
LM377448/LM377410	558.8	736.6	104.775	104.775	80.963	6.4	6.4	2090	4940	380	500	120.3	580	600	690	705	6.4	6.4	0.35	1.73	0.95	114
LM377449/LM377410	558.8	736.6	104.775	104.775	80.962	6.4	6.4	2300	5600	380	500	120.7	607	581	696	720	6.4	6.4	0.35	1.7	0.95	118
M278749/M278710	571.5	812.8	155.575	155.575	120.65	6.4	6.4	4000	9300	370	470	143.6	634	601	759	790	6.4	6.4	0.33	1.8	0.99	256
M278749/M278710	571.6	812.8	155.575	158.75	120.65	6.4	6.4	3790	8760	370	470	143.2	595	630	750	775	6.4	6.4	0.33	1.8	0.99	254
LL778149/LL778110	584.2	685.8	49.212	49.212	34.925	3.5	3.3	735	1970	370	470	114.3	613	599	663	675	3.5	3.3	0.44	1.4	0.75	29.6
EE662303/663550	584.2	901.7	150.02	139.7	107.95	7.9	9.5	3900	7360	360	460	152.6	610	670	830	840	7.9	9.5	0.33	1.81	1	319
680235/680270	596.9	685.8	31.75	31.75	25.4	3.5	3.3	380	995	340	450	124.9	621	610	664	675	3.5	3.3	0.52	1.1	0.63	17.4
EE649237/649310	602.945	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	655	629	749	771	6.4	6.4	0.37	1.6	0.89	115
EE649239/649310	607.72	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	658	631	749	771	6.4	6.4	0.37	1.6	0.89	111
EE649238/649310	609.345	787.4	93.663	93.662	69.85	6.4	6.4	1980	4970	340	450	126.9	635	650	740	750	6.4	6.4	0.37	1.61	0.89	112
L879946/L879910	609.397	762	95.25	92.075	71.438	6.4	6.4	1700	4510	340	450	153	635	640	720	740	6.4	6.4	0.49	1.23	0.67	91.4
L879947/L879910	609.6	762	95.25	92.075	71.438	6.4	6.4	1780	4700	340	450	152.9	656	627	722	750	6.4	6.4	0.49	1.2	0.68	93.3
L580049/L580010	609.6	774.7	85.725	79.375	60.32	6.4	6.4	1780	4250	340	450	130.5	654	634	737	755	6.4	6.4	0.4	1.5	0.82	90.1
EE649240/649310	609.6	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	129.2	659	632	749	771	6.4	6.4	0.37	1.6	0.89	110
EE649240AX/649310	609.6	787.4	93.662	93.662	69.85	6.4	6.4	2000	4800	340	450	125	637	643	760	755	6	6	0.37	1.6	0.9	110
EE743240/743320	609.6	812.8	82.55	82.55	60.325	6.4	6.4	1910	4290	340	450	112.7	635	660	755	765	6.4	6.4	0.33	1.83	1.01	112
80780/80720	635	736.6	57.15	53.975	41.275	3.3	3.3	870	2500	340	450	125	664	648	712	726	3.3	3.3	0.44	1.4	0.75	36.6
M281635/M281610	653.928	933.45	179.388	177.8	141.288	12	6.4	5040	11500	320	430	167.7	690	720	870	890	12	6.4	0.33	1.8	0.99	384
L281146/L281110	660.235	812.8	95.25	95.25	73.025	6.4	6.4	2000	5270	320	430	123.8	685	695	775	790	6.4	6.4	0.33	1.8	0.99	100
L281147/L281110	660.4	812.8	95.25	95.25	73.025	6.4	6.4	2000	5270	320	430	123.8	685	695	775	790	6.4	6.4	0.33	1.8	0.99	100
L281148/L281110	660.4	812.8	95.25	95.25	73.025	6.4	6.4	2200	5900	320	430	123.1	701	678	778	799	6.4	6.4	0.33	1.8	0.99	105
EE749260/749336	660.4	854.075	85.725	85.468	60.325	9.7	6.4	2000	4650	320	430	124.5	712	690	813	831	9.7	6.4	0.35	1.7	0.94	119
LL481448/LL481411	673.1	793.75	66.675	61.912	49.212	6.4	6.4	995	2660	320	430	119.7	708	691	764	781	6.4	6.4	0.36	1.7	0.92	52
LM281849/LM281810	679.45	901.7	142.875	142.875	111.125	9.7	6.4	3580	9000	280	380	149	730	728	870	867	9	6	0.33	1.8	1	242
EE655270/655345	685.8	876.3	93.662	92.075	69.85	6.4	6.4	2160	5550	300	400	149.9	737	712	832	857	6.4	6.4	0.42	1.4	0.79	134
EE755280/755360	711.2	914.4	85.725	82.55	60.325	6.4	6.4	1870	4800	280	380	140.5	767	746	870	891	6.4	6.4	0.38	1.6	0.87	136
EE755282/755360	719.854	914.4	84.138	80.963	60.325	4.8	6.4	1760	4470	280	380	139.3	740	780	870	870	4.8	6.4	0.38	1.58	0.87	123
EE755285/755360	723.9	914.4	84.138	80.962	60.325	3.3	6.4	1870	4800	280	380	140.5	770	752	870	891	3.3	6.4	0.38	1.6	0.87	126
LL582949/LL582910B	736.6	825.5	31.75	31.75	25.4	3.5	3.3	429	1370	300	400	119	754	767	804	809	3	3	0.4	1.5	0.8	22.5
LL582949/LL582910	736.6	825.5	31.75	31.75	25.4	3.6	3.2	497	1550	300	400	117	755	760	800	800	3.6	3.2	0.4	1.51	0.83	21.3
EE752295/752380	749.3	965.2	93.663	80.963	66.675	6.4	3.2	1830	4790	280	380	159.7	775	820	910	920	6.4	3.2	0.4	1.49	0.82	152
LM283649/LM283610	749.3	990.6	159.5	160.338	123	6.4	6.4	4400	11700	280	380	165.2	815	782	938	969	6.4	6.4	0.33	1.8	0.99	329
LL783647/LL783610	758.825	901.7	66.675	65.088	46.038	6.4	6.4	1410	3790	280	380	149.9	785	790	870	870	6.4	6.4	0.44	1.36	0.75	71.2
LL483448/33483418	759.925	889	69.85	69.85	50.8	3.3	3.3	1230	3800	280	380	132	782	785	867	858	3	3	0.37	1.6	0.9	67.5
L183448/L183410	759.925	889	88.9	88.9	72	3.3	3.3	1940	6200	260	360	123	782	785	867	872	3	3	0.3	2	1.1	94

EE175301/175350	762	889	63.5	63.5	50.8	3.3	3.3	1160	3450	280	380	131.4	797	780	861	876	3.3	3.3	0.38	1.6	0.87	64.4
EE175300/175350	762	889	69.85	69.85	50.8	3.2	3.2	1290	3920	280	380	132.3	780	790	860	860	3.2	3.2	0.38	1.58	0.87	69
LL483449/LL483418	762	889	69.85	69.85	50.8	3.3	3.3	1160	3450	280	380	133.8	797	780	861	875	3.3	3.3	0.38	1.6	0.87	68.1
L183449/L183410	762	889	88.9	88.9	72	3.3	3.3	1940	6200	260	360	123	784	785	867	872	3	3	0.3	2	1.1	92.5
LL783649/LL783610	762	901.7	66.675	65.088	46.038	6.4	6.4	1410	3790	260	360	149.9	785	790	870	870	6.4	6.4	0.44	1.36	0.75	69.3
EE752300/752380	762	965.2	93.662	80.962	66.675	6.4	3.3	2100	5200	260	360	158.8	815	793	926	943	6.4	3.3	0.4	1.5	0.83	147
EE752306/752380	774.7	965.2	93.663	80.962	66.675	6.4	3.2	1830	4790	240	340	159.7	800	820	910	920	6.4	3.2	0.4	1.49	0.82	133
EE752305/752380	774.7	965.2	93.662	80.962	66.675	6.4	3.3	2100	5200	240	340	158.8	822	800	926	943	6.4	3.3	0.4	1.5	0.83	137
EE157337/157430	857.25	1092.2	120.65	111.125	76.2	19	6.4	2810	7350	200	300	228	912	912	1062	1047	18	6	0.57	1.05	0.6	245
EE158350/158442	889	1123.95	120.65	111.125	76.2	19	6.4	2860	6850	200	300	199	940	940	1070	1080	19	6.4	0.45	1.34	0.73	237
LL687949/LL687910	977.9	1130.3	66.675	63.5	47.625	6.4	6.4	1460	4350	180	260	182.9	1019	1002	1095	1112	6.4	6.4	0.43	1.4	0.76	101
EE168400/168500	1016	1270	101.6	101.6	66.675	9.7	9.7	2750	7500			229	1054	1087	1232	1214	9	9	0.5	1.2	0.7	275
LL788349/LL788310	1066.8	1219.2	65.088	65.088	42.862	3.3	3.3	1520	4750			209	1106	1090	1187	1202	3.3	3.3	0.47	1.3	0.7	108
EE776420/776520	1066.8	1320.8	95.25	88.9	69.85	6.4	6.4	2660	7140			170.5	1090	1140	1260	1280	6.4	6.4	0.57	1.05	0.58	270
EE776430/776520	1092.2	1320.8	95.25	88.9	69.85	6.4	6.4	2730	7650			270.7	1153	1128	1269	1301	6.4	6.4	0.57	1.1	0.58	249
EE277455/277565	1155.7	1435.1	120.65	120.65	95.25	6.4	6.4	4150	12000			207.3	1227	1199	1377	1403	6.4	6.4	0.36	1.7	0.92	431
LL889049/LL889010	1270	1435.1	69.85	65.088	47.625	6.4	6.4	1630	5550			285.4	1315	1294	1392	1413	6.4	6.4	0.57	1.1	0.58	144

Double Row Tapered Roller Bearing With Double Cone (Inch Series)



Bearing Numbers	Boundary dimensions(mm)						Basic load rating(kN)		Design	Abutment and fillet dimensions(mm)				Value				Weight(kg)
	d	D	T	C	r ₁ , 2min	r ₃ , 4min	Cr	Cor		d _a min	D _a max	r _b max	r _a max	e	Y ₁	Y ₂	Y ₀	
783/774D	100	180.975	104.775	85.725	1.6	3.6	440	750	1	123	171	1.6	3.6	0.39	1.8	2.6	1.7	10.6
52400/52637D	101.6	161.925	82.548	61.912	0.8	3.6	310	570	1	120	155	0.8	3.6	0.47	1.4	2.1	1.4	5.7
687/672D	101.6	168.275	92.075	69.85	0.8	3.6	380	685	1	121	161	0.8	3.6	0.47	1.4	2.1	1.4	7.3
780/773D	101.6	180	104.775	85.725	0.8	3.6	440	750	1	124	171	0.8	3.6	0.39	1.8	2.6	1.7	10.2
780/774D	101.6	180.975	104.775	85.725	1.6	3.6	440	750	1	124	171	1.6	3.6	0.39	1.8	2.6	1.7	10.4
861/854D	101.6	190.5	127	101.6	1.6	8	605	1000	1	130	180	1.6	8	0.33	2	3	2	14.4
HH221449/HH221410D	101.6	190.5	127	104.775	1.6	8	665	1040	1	131	183	1.6	8	0.33	2	3	2	14.3
98400/98789D	101.6	200.025	115.888	80.216	2.3	3.6	540	850	1	132	190	2.3	3.6	0.63	1.1	1.6	1	14.8
HH224335/HH224310D	101.6	212.725	142.875	117.475	1.6	7	975	1620	1	137	205	1.6	7	0.33	2.1	3.1	2	23.3
782/773D	104.775	180	104.775	85.725	0.8	3.6	440	750	1	125	171	0.8	3.6	0.39	1.8	2.6	1.7	9.7
786/774D	104.775	180.975	104.775	85.725	1.6	6.4	440	750	1	128	171	1.6	6.4	0.39	1.8	2.6	1.7	9.9
71412/71751D	104.775	190.5	106.632	80.962	1.6	3.6	510	925	1	131	182	1.6	3.6	0.42	1.6	2.4	1.6	12.2
56418/56650D	106.362	165.1	82.55	63.5	0.8	3.6	335	645	1	126	160	0.8	3.6	0.5	1.4	2	1.3	5.9
L521949/L521910D	107.95	146.05	49.212	39.688	0.8	1.5	147	330	1	120	141	0.8	1.5	0.39	1.7	2.6	1.7	2.2
56425/56650D	107.95	165.1	82.55	63.5	0.8	3.6	335	645	1	127	160	0.8	3.6	0.5	1.4	2	1.3	5.7
71425/71751D	107.95	190.5	106.362	80.962	1.6	3.6	510	925	1	133	182	1.6	3.6	0.42	1.6	2.4	1.6	11.8
HH224340/HH224310D	107.95	212.725	142.875	117.475	1.6	8	975	1620	1	142	205	1.6	8	0.33	2.1	3.1	2	22.1
EE342043/342091D	107.95	234.95	111.125	82.55	1.6	6.4	610	840	1	144	222	1.6	6.4	0.43	1.6	2.3	1.5	20
71432/71751D	109.952	190.5	106.362	80.962	1.6	3.6	510	925	1	134	182	1.6	3.6	0.42	1.6	2.4	1.6	11.5

64433/64700D	109.952	177.8	92.075	69.85	0.8	3.6	400	750	1	132	173	0.8	3.6	0.52	1.3	1.9	1.3	8
71437/71751D	111.125	190.5	106.362	80.962	1.6	3.6	510	925	1	135	182	1.6	3.6	0.42	1.6	2.4	1.6	11.3
64450/64700D	114.3	177.8	92.075	69.85	0.8	3.6	444	788	1	135	173	0.8	3.6	0.52	1.3	1.9	1.3	7.75
HH224346/HH224310D	114.3	212.725	142.875	117.475	1.6	7	975	1620	1	144	205	1.6	7	0.33	2.1	3.1	2	20.9
HH224346NA/HH224310D	114.3	212.725	142.875	117.475	1.6	3.6	975	1620	2	140	205	1.6	3.6	0.33	2.1	3.1	2	21
HM926740/HM926710D	114.3	228.6	115.888	84.138	2.3	3.6	645	1060	1	152	220	2.3	3.6	0.74	0.92	1.4	0.9	20.5
HH224349/HH224310D	114.976	212.725	142.875	117.475	1.6	7	975	1620	1	144	205	1.6	7	0.33	2.1	3.1	2	20.8
M224748/M224710D	120	174.625	77.788	61.913	0.8	3.6	365	765	1	137	169	0.8	3.6	0.33	2	3	2	5.8
M224749/M224710D	120.65	174.625	77.788	61.913	0.8	3.6	365	765	1	138	169	0.8	3.6	0.33	2	3	2	5.7
795/792D	120.65	206.375	107.95	82.55	0.8	3.2	545	1060	1	149	199	0.8	3.2	0.46	1.5	2.2	1.4	14
48286/48220D	123.825	182.562	85.725	73.025	0.8	3.6	390	885	1	143	177	0.8	3.6	0.31	2.2	3.3	2.2	7.4
95491/95927D	124.943	234.95	142.875	114.3	1.6	6.4	875	1580	1	162	226	1.6	6.4	0.37	1.8	2.7	1.8	25.7
L225849/L225812D	127	169.975	58.738	49.213	1	1.6	225	501	1	135.2	161.8	1	1.6	0.33	2.03	3.02	1.98	3.45
48291/48220D	127	182.563	85.725	73.025	0.8	3.6	389	858	1	139.2	173.2	0.8	3.6	0.31	2.21	3.29	2.16	6.99
67388/67322D	127	196.85	101.6	85.725	0.8	3.6	535	1120	1	150	192	0.8	3.6	0.34	2	2.9	1.9	11.1
67388/67323D	127	196.85	107.95	92.075	0.8	3.6	534	1120	1	139.2	188.8	0.8	3.6	0.34	1.96	2.92	1.92	11.4
67388/67325D	127	200.025	101.6	85.725	0.8	3.6	535	1120	1	150	193	0.8	3.6	0.34	2	2.9	1.9	11.7
798/792D	127	206.375	107.95	82.55	0.8	3.6	558	1100	1	139.2	194.1	0.8	3.6	0.46	1.47	2.19	1.44	13.2
74500/74851D	127	215.9	106.362	80.962	1.6	3.6	495	985	1	157	208	1.6	3.6	0.49	1.4	2.1	1.4	15
HM926749/HM926710D	127	228.6	115.888	84.138	2.3	3.6	645	1060	1	158	220	2.3	3.6	0.74	0.92	1.4	0.9	18.3
127KDE2301	127	230	126	84	1.6	4	645	1060	1	158	220	1.6	4	0.74	0.92	1.4	0.9	19.6
95500/95927D	127	234.95	142.875	114.3	1.6	6.4	875	1580	1	163	226	1.6	6.4	0.37	1.8	2.7	1.8	25.2
EE153050/153103D	127	258.762	177.8	136.525	1.6	9.6	975	1600	1	167	243	1.6	9.6	0.32	2.1	3.1	2.1	38
HM926749/HM926710D	127.792	228.6	115.888	84.138	2.3	3.6	645	1060	1	158	220	2.3	3.6	0.74	0.92	1.4	0.9	18.1
799/792D	128.588	206.375	107.95	82.55	0.8	3.2	545	1060	1	153	199	0.8	3.2	0.46	1.5	2.2	1.4	12.7
67389/67322D	130.175	196.85	101.6	85.725	0.8	3.2	535	1120	1	152	192	0.8	3.2	0.34	2	2.9	1.9	10.6
67389/67325D	130.175	200.025	101.6	85.725	0.8	3.2	535	1120	1	152	192	0.8	3.2	0.34	2	2.9	1.9	11.2
799A/792D	130.175	206.375	107.95	82.55	0.8	3.2	545	1060	1	154	199	0.8	3.2	0.46	1.5	2.2	1.4	12.4
L327249/L327210D	133.35	177.008	57.15	47.625	0.8	1.5	213	515	1	147	172	0.8	1.5	0.35	1.9	2.9	1.9	3.7
L327248NA/L327210D	133.35	177.008	60.325	47.625	0.8	1.5	241	557	1	141.6	169	0.8	1.5	0.35	1.94	2.89	1.9	3.79
48385/48320D	133.35	190.5	85.725	73.025	0.8	3.6	370	880	1	153	185	0.8	3.6	0.32	2.1	3.1	2.1	7.7
67390/67322D	133.35	196.85	101.6	85.725	0.8	3.6	535	1120	1	153	192	0.8	3.6	0.34	2	2.9	1.9	10
67390/67325D	133.35	200.025	101.6	85.725	0.8	3.6	535	1120	1	153	193	0.8	3.6	0.34	2	2.9	1.9	10.6
74525/74851D	133.35	215.9	106.362	80.962	1.6	3.6	495	985	1	160	208	1.6	3.6	0.49	1.4	2.1	1.4	14
95525/95927D	133.35	234.95	142.875	114.3	1.6	9.6	875	1580	1	169	226	1.6	9.6	0.37	1.8	2.7	1.8	23.8
48393/48320D	136.525	190.5	85.725	73.025	0.8	3.6	370	880	1	155	185	0.8	3.6	0.32	2.1	3.1	2.1	7.3
74537/74851D	136.525	215.9	106.362	80.962	1.6	3.6	495	985	1	162	208	1.6	3.6	0.49	1.4	2.1	1.4	13.4
896/892D	136.525	228.6	123.825	98.425	1.6	3.6	650	1240	1	163	219	1.6	3.6	0.42	1.6	2.4	1.6	18.7
99537/99102D	136.525	254	149.225	111.125	1.6	7.1	941	1830	1	155.7	236.4	1.6	7.1	0.41	1.66	2.47	1.62	31.9
99537/99101D	136.525	254	152.4	114.3	1.6	7.1	885	1660	1	178	245	1.6	7.1	0.41	1.7	2.5	1.6	31.2
74550/74851D	139.7	215.9	106.362	80.962	1.6	3.6	495	985	1	163	208	1.6	3.6	0.49	1.4	2.1	1.4	12.8
73551/73876D	139.7	222.25	75.692	53.975	2.3	3.6	325	535	1	162	211	2.3	3.6	0.44	1.5	2.3	1.5	9.3
898/892D	139.7	228.6	123.825	98.425	1.6	3.6	753	1460	1	151.9	214.2	1.6	3.6	0.42	1.6	2.39	1.57	18.5
HM231132/HM231111D	139.7	236.538	131.762	106.362	1.6	3.6	775	1440	1	168	227	1.6	3.6	0.32	2.1	3.2	2.1	21
HM231132/HM231116D	139.7	241.3	131.762	106.362	1.6	3.6	775	1440	1	168	230	1.6	3.6	0.32	2.1	3.2	2.1	22.6
81550/81963D	139.7	244.475	107.95	79.375	1.6	3.6	552	989	1	151.9	226.5	1.6	3.6	0.35	1.93	2.88	1.89	18.8
99550/99102D	139.7	254	149.225	111.125	1.6	7	1026	1862	1	179	245	1.6	7	0.4	1.7	2.5	1.6	31
99550/99101D	139.7	254	152.4	114.3	1.6	7	885	1660	1	179	245	1.6	7	0.41	1.7	2.5	1.6	30.4
EE107055/107105D	139.7	268.288	160.338	125.413	1.6	6.4	1130	2090	1	157.5	249	1.6	6.4	0.39	1.74	2.59	1.7	39.9

EE750558/751204D	139.7	304.8	135.733	97.633	1.6	3.2	1030	1600	1	151.1	267.5	1.6	3.2	0.33	2.03	3.02	1.98	44.7
HH234031/HH234011D	139.7	307.975	200.025	155.575	1.6	3.2	1740	2780	1	180	285	1.6	3.2	0.33	2.07	3.08	2.02	65.9
EE450551/451215D	139.7	307.975	200.025	146.05	2.4	9.5	1360	2300	1	163.7	274.9	2.4	9.5	0.33	2.07	3.09	2.03	66.2
48684/48620D	142.875	200.025	87.315	73.025	0.8	8	390	915	1	167	195	0.8	8	0.34	2	3	2	7.9
48686/48620D	142.875	200.025	93.665	73.025	0.8	3.6	422	982	1	155.1	190.1	0.8	3.6	0.34	2.01	2.99	1.96	8.43
HM231136/HM231111D	142.875	236.538	131.763	106.363	1.6	3.6	856	1660	1	155.1	222.7	1.6	3.6	0.32	2.12	3.15	2.07	21.8
HM231136/HM231116D	142.875	241.3	131.762	106.362	1.6	3.6	685	1360	1	171	230	1.6	3.6	0.44	1.5	2.3	1.5	22.4
36690/36620D	146.05	193.675	65.085	53.975	0.8	1.5	303	660	1	161	188	0.8	1.5	0.37	1.8	2.7	1.8	5
HM231140/HM231111D	146.05	236.538	131.762	106.362	1.6	3.6	775	1440	1	171	227	1.6	3.6	0.32	2.1	3.2	2.1	19.6
82576/82932D	146.05	236.538	131.762	106.362	1.6	3.6	685	1360	1	173	228	1.6	3.6	0.44	1.5	2.3	1.5	20.4
HM231140NA/HM231111D	146.05	236.538	131.762	106.362	1.6	3.6	775	1440	2	171	227	1.6	3.6	0.32	2.1	3.2	2.1	19.7
HM231140/HM231116D	146.05	241.3	131.762	106.362	1.6	3.6	775	1440	1	171	230	1.6	3.6	0.32	2.1	3.2	2.1	21.2
HM231140NA/HM231116D	146.05	241.3	131.762	106.362	1.6	3.6	775	1440	2	171	230	1.6	3.6	0.32	2.1	3.2	2.1	21.3
82576/82951D	146.05	241.3	131.762	106.362	1.6	3.6	719	1460	1	158.3	224.3	1.6	3.6	0.44	1.53	2.27	1.49	22.6
81575/81963D	146.05	244.475	107.95	79.375	1.6	3.6	570	1020	1	175	235	1.6	3.6	0.35	1.9	2.9	1.9	17.9
99575/99102D	146.05	254	149.225	111.125	1.6	7	885	1660	1	182	245	1.6	7	0.41	1.7	2.5	1.6	28
99575/99101D	146.05	254	152.4	114.3	1.6	7	941	1830	1	165.3	236.4	1.6	7	0.41	1.66	2.47	1.62	30
EE107057/107105D	146.05	268.288	160.338	125.412	1.6	7	1040	1960	1	184	256	1.6	7	0.39	1.7	2.6	1.7	36.5
EE750576/751204D	146.05	304.8	135.733	97.633	1.6	3.2	1090	1560	1	180	285	1.6	3.2	0.33	2	3	2	42.1
HH234040/HH234011D	146.05	307.975	200.025	155.575	2.3	9.7	1510	2380	1	194	294	2.3	9.7	0.33	2.1	3.1	2	61.6
EE450577/451215D	146.05	307.975	200.025	146.05	2.3	9.7	1360	2300	1	170.1	274.9	2.3	9.7	0.33	2.07	3.09	2.03	63.9
HM231148/HM231111D	149.225	236.538	131.762	106.362	1.6	6.4	775	1440	1	176	227	1.6	6.4	0.32	2.1	3.2	2.1	18.8
HM231149/HM231111D	149.225	236.538	131.762	106.362	1.6	3.6	775	1440	1	173	227	1.6	3.6	0.32	2.1	3.2	2.1	18.8
82587/82932D	149.225	236.538	131.762	106.362	1.6	3.6	685	1360	1	175	228	1.6	3.6	0.44	1.5	2.3	1.5	19.7
HM231149NA/HM231111D	149.225	236.538	131.762	106.362	1.6	3.6	775	1440	2	173	227	1.6	3.6	0.32	2.1	3.2	2.1	18.9
HM231148/HM231111D	149.225	236.538	131.762	106.362	1.6	6.4	856	1660	1	167	222.7	1.6	6.4	0.32	2.12	3.15	2.07	20.2
HM231149/HM231111D	149.225	236.538	131.762	106.362	1.6	3.6	856	1660	1	161.4	222.7	1.6	3.6	0.32	2.12	3.15	2.07	20.3
82587/82932D	149.225	236.538	131.762	106.362	1.6	3.6	719	1460	1	161.4	224.3	1.6	3.6	0.44	1.53	2.27	1.49	20.4
HM231149/HM231116D	149.225	241.3	131.762	106.362	1.6	3.6	775	1440	1	173	230	1.6	3.6	0.32	2.1	3.2	2.1	20.4
82587/82951D	149.225	241.3	131.762	106.362	1.6	3.6	685	1360	1	175	230	1.6	3.6	0.44	1.5	2.3	1.5	21
HM231149NA/HM231116D	149.225	241.3	131.762	106.362	1.6	3.6	775	1440	2	173	230	1.6	3.6	0.32	2.1	3.2	2.1	20.5
HM231148/HM231116D	149.225	241.3	131.762	106.362	1.6	6.4	856	1660	1	167	222.7	1.6	6.4	0.32	2.12	3.15	2.07	21.7
HM231149/HM231116D	149.225	241.3	131.762	106.362	1.6	3.6	856	1660	1	161.4	222.7	1.6	3.6	0.32	2.12	3.15	2.07	21.8
99587/99102D	149.225	254	149.225	111.125	1.6	6.4	885	1660	1	184	245	1.6	6.4	0.41	1.7	2.5	1.6	27.4
99587/99101D	149.225	254	152.4	114.3	1.6	6.4	941	1830	1	168.4	236.4	1.6	6.4	0.41	1.66	2.47	1.62	29.1
81590/81963D	150	244.475	107.95	79.375	1.6	3.6	552	989	1	162.2	226.5	1.6	3.6	0.35	1.93	2.88	1.89	16.8
81593/81963D	150.812	244.475	107.95	79.375	1.6	3.6	570	1020	1	177	235	1.6	3.6	0.35	1.9	2.9	1.9	16.9
M231648/M231610D	152.4	222.25	100.01	76.2	0.8	8	490	1060	1	179	215	0.8	8	0.33	2	3	2	11.9
M231649/M231610D	152.4	222.25	100.01	76.2	0.8	3.6	575	1187	1	175	215	0.8	3.6	0.33	2	3	2	12
M231648/M231610D	152.4	222.25	100.01	76.2	0.8	8	541	1190	1	173.2	209.3	0.8	8	0.33	2.03	3.02	1.98	11.8
M231649/M231610D	152.4	222.25	100.01	76.2	0.8	3.6	541	1190	1	164.6	209.3	0.8	3.6	0.33	2.03	3.02	1.98	11.9
M231649/M231611D	152.4	222.25	106.36	82.55	0.8	3.6	490	1060	1	175	215	0.8	3.6	0.33	2	3	2	12.5
81600/81693D	152.4	244.475	107.95	79.375	1.6	3.6	570	1020	1	178	235	1.6	3.6	0.35	1.9	2.9	1.9	16.6
99600/99102D	152.4	254	149.225	111.125	1.6	7	885	1660	1	185	245	1.6	7	0.41	1.7	2.5	1.6	26.5
99600/99101D	152.4	254	152.4	114.3	1.6	7	885	1660	1	185	245	1.6	7	0.41	1.7	2.5	1.6	27.1
EE107060/107105D	152.4	268.288	160.338	125.412	1.6	7	1040	1960	1	187	256	1.6	7	0.39	1.7	2.6	1.7	34.6
EE450601/451215D	152.4	307.975	200.025	146.05	2.3	9.7	1280	2150	1	199	289	2.3	9.7	0.33	2.1	3.1	2	60.1
HH234048/HH234011D	152.4	307.975	200.025	155.575	2.3	9.7	1510	2380	1	197	294	2.3	9.7	0.33	2.1	3.1	2	59.3
81606/81963D	153.988	244.475	107.95	79.375	1.6	3.6	552	989	1	166.2	226.5	1.6	3.6	0.35	1.93	2.88	1.89	16

46780/46720D	158.75	225.425	85.725	69.85	0.8	3.6	410	1080	1	183	219	0.8	3.6	0.38	1.8	2.6	1.7	11.1
158KBE2851	158.75	288.925	142.875	111.125	1.6	7	1050	1870	1	201	278	1.6	7	0.32	2.1	3.2	2.1	37.3
EE280626/281201D	158.75	304.8	147.838	98.425	1.6	7	939	1600	1	176.6	281.2	1.6	7	0.36	1.87	2.79	1.83	43
81629/81963D	159.951	244.475	107.95	79.375	1.6	3.6	570	1020	1	182	235	1.6	3.6	0.35	1.9	2.9	1.9	15.1
HM237532/HM237510D	160.325	288.925	142.875	111.125	1.6	7	1050	1870	1	202	278	1.6	7	0.32	2.1	3.2	2.1	36.8
HM237532/HM237511XD	160.325	288.925	146.05	114.3	1.6	7	1080	190	1	179.5	270.2	1.6	7	0.32	2.12	3.15	2.07	37.9
EE117063/117148D	161.925	374.65	184.15	130.175	1.6	7	1460	2180	1	217	355	1.6	7	0.71	0.96	1.4	0.93	89.3
L433749/L433710D	165.1	215.9	58.74	47.625	0.8	1.5	263	590	1	180	210	0.8	1.5	0.36	1.9	2.8	1.8	5.3
46790/46720D	165.1	225.425	85.725	69.85	0.8	8	470	1121	1	186	219	0.8	8	0.37	1.8	2.7	1.8	10
46790R/46720D	165.1	225.425	85.725	69.85	0.8	3.6	442	1140	1	177.3	215	0.8	3.6	0.38	1.76	2.62	1.72	9.64
67780/67720D	165.1	247.65	103.188	84.138	0.8	3.6	595	1410	1	194	241	0.8	3.6	0.44	1.5	2.3	1.5	17.2
67780/67721D	165.1	247.65	106.362	87.312	0.8	3.6	593	1400	1	177.3	237.6	0.8	3.6	0.44	1.54	2.29	1.5	17.4
M235145/M235113D	165.1	254	101.6	76.2	1.6	4.8	635	1190	1	191	244	1.6	4.8	0.32	2.1	3.2	2.1	16.4
HM237535/HM237510D	165.1	288.925	142.875	111.125	1.6	7	1050	1870	1	204	278	1.6	7	0.32	2.1	3.2	2.1	35.4
94649/94114D	165.1	288.925	142.875	111.125	1.6	7	1111	2166	1	206	277	1.6	7	0.46	1.5	2.2	1.4	38
HM237536NA/HM237510D	165.1	288.925	142.875	111.125	1.6	3.6	1080	1950	1	177.3	270.2	1.6	3.6	0.32	2.12	3.15	2.07	36.1
94650/94114D	165.1	288.925	142.875	111.125	1.6	3.6	943	1920	1	177.3	269.8	1.6	3.6	0.47	1.44	2.15	1.41	37.8
HM237535/HM237511D	165.1	288.925	146.05	114.3	1.6	7	1050	1870	1	204	278	1.6	7	0.32	2.1	3.2	2.1	36
94649/94118D	165.1	298.45	142.875	111.125	1.6	7	943	1920	1	184.3	269.8	1.6	7	0.47	1.44	2.15	1.41	41.5
94650/94118D	165.1	298.45	142.875	111.125	1.6	3.6	943	1920	1	177.3	269.8	1.6	3.6	0.47	1.44	2.15	1.41	41.6
EE618065/618136D	165.1	347.662	146.05	107.95	1.6	9.7	1310	2010	1	214	326	1.6	9.7	0.33	2	3	2	58.7
EE420651/421451D	165.1	368.3	193.675	136.525	1.6	9.7	1500	2690	1	234	353	1.6	9.7	0.42	1.6	2.4	1.6	93
46790R/46720D	165.496	225.425	95.25	69.85	0.8	3.6	442	1140	1	177.7	215	0.8	3.6	0.38	1.76	2.62	1.72	10.3
46792R/46720D	166.688	225.425	85.725	69.85	0.8	3.6	442	1140	1	178.9	215	0.8	3.6	0.38	1.76	2.62	1.72	9.37
67782/67720D	168.275	247.65	103.188	84.138	0.8	3.6	595	1410	1	195	241	0.8	3.6	0.44	1.5	2.3	1.5	16.5
67782/67721D	168.275	247.65	106.362	87.312	0.8	3.6	593	1400	1	180.5	237.6	0.8	3.6	0.44	1.54	2.29	1.5	16.7
M235149/M235113D	170	254	101.6	76.2	1.6	4.8	635	1190	1	194	244	1.6	4.8	0.32	2.1	3.2	2.1	15.4
94675/94114D	171.45	288.925	142.875	111.125	1.6	7	943	1920	1	190.7	269.8	1.6	7	0.47	1.44	2.15	1.41	35.9
94675/94118D	171.45	298.45	142.875	111.125	1.6	7	943	1920	1	190.7	269.8	1.6	7	0.47	1.44	2.15	1.41	39.6
67787/67720D	174.625	247.65	103.188	84.138	0.8	3.6	595	1410	1	199	241	0.8	3.6	0.44	1.5	2.3	1.5	15.1
67786/67720D	174.625	247.65	103.188	84.138	0.8	7.9	593	1400	1	195.4	237.6	0.8	7.9	0.44	1.54	2.29	1.5	14.8
67786/67721D	174.625	247.65	106.362	87.312	0.8	7.9	593	1400	1	195.4	237.6	0.8	7.9	0.44	1.54	2.29	1.5	15.2
67787/67721D	174.625	247.65	106.362	87.312	0.8	3.6	593	1400	1	186.8	237.6	0.8	3.6	0.44	1.54	2.29	1.5	15.3
94687/94114D	174.625	288.925	142.875	111.125	0.8	3.6	940	1900	1	204	272	0.8	3.6	0.47	1.44	2.15	1.41	33.1
HM237542/HM237510D	174.625	288.925	142.875	111.125	1.6	7	1080	1950	1	193.8	270.2	1.6	7	0.32	2.12	3.15	2.07	33.1
94687/94114D	174.625	288.925	142.875	111.125	1.6	7	943	1920	1	193.8	269.8	1.6	7	0.47	1.44	2.15	1.41	34.9
HM237542/HM237511D	174.625	288.925	146.05	114.3	1.6	7	1050	1870	1	209	278	1.6	7	0.32	2.1	3.2	2.1	33.1
94687/94118D	174.625	298.45	142.875	111.125	1.6	7	943	1920	1	193.8	269.8	1.6	7	0.47	1.44	2.15	1.41	38.7
36990/36920D	177.8	227.012	66.672	52.388	0.8	1.5	299	785	1	193	222	0.8	1.5	0.44	1.5	2.3	1.5	6.4
67790/67720D	177.8	247.65	103.188	84.138	0.8	3.6	595	1410	1	200	241	0.8	3.6	0.44	1.5	2.3	1.5	14.4
67991/67720D	177.8	247.65	103.188	84.138	0.8	10.4	595	1410	1	207	241	0.8	10.4	0.44	1.5	2.3	1.5	14.2
67790/67721D	177.8	247.65	106.362	87.312	0.8	3.6	593	1400	1	190	237.6	0.8	3.6	0.44	1.54	2.29	1.5	14.6
67791/67721D	177.8	247.65	106.362	87.312	0.8	10.4	593	1400	1	203.6	237.6	0.8	10.4	0.44	1.54	2.29	1.5	14.4
M238840/M238810D	177.8	269.875	119.062	93.662	1.6	3.6	836	1805	1	208	262	1.6	3.6	0.33	2	3	2	23
87700/87112D	177.8	282.575	107.95	79.375	1.6	3.6	702	1450	1	190	266.3	1.6	3.6	0.42	1.62	2.42	1.59	23.8
EE91702/91113XD	177.8	285.75	136.525	92.075	1.6	6.4	775	1450	1	210	274	1.6	6.4	0.43	1.6	2.3	1.5	28.7
HM237545/HM237509D	177.8	288.925	142.875	111.125	1.6	7	1050	1870	1	210	278	1.6	7	0.32	2.1	3.2	2.1	31.7
94700/94114D	177.8	288.925	142.875	111.125	1.6	7	930	1880	1	213	277	1.6	7	0.47	1.4	2.1	1.4	33.6
HM237545NA/HM237510D	177.8	288.925	142.875	111.125	1.6	5.6	1080	1950	1	194	270.2	1.6	5.6	0.32	2.12	3.15	2.07	32.2

HM237545NA/HM237510D	177.8	288.925	142.875	111.125	1.6	5.6	1050	1870	2	209	278	1.6	5.6	0.32	2.1	3.2	2.1	31.9
HM237545/HM237511D	177.8	288.925	146.05	114.3	1.6	7	1050	1870	1	210	278	1.6	7	0.32	2.1	3.2	2.1	32.2
94700/94118D	177.8	298.45	142.875	111.125	1.6	7	930	1880	1	213	282	1.6	7	0.47	1.4	2.1	1.4	37.5
EE280702/281201D	177.8	304.8	147.838	98.425	1.6	6.4	939	1600	1	195.6	281.2	1.6	6.4	0.36	1.87	2.79	1.83	37.2
H239640/H239612D	177.8	320.675	185.738	138.112	1.6	3.6	1470	2530	1	215	309	1.6	3.6	0.32	2.1	3.2	2.1	55.6
177KBE3251	177.8	320.675	185.738	138.112	1.6	3.6	1270	2420	1	218	309	1.6	3.6	0.49	1.4	2.1	1.4	58.9
EE222070/222127D	177.8	320.675	185.738	138.112	1.6	3.6	1280	2450	1	190	297.9	1.6	3.6	0.4	1.68	2.5	1.64	59
EE420701/421451D	177.8	368.3	193.675	136.525	1.6	12.7	1500	2690	1	243	353	1.6	12.7	0.42	1.6	2.4	1.6	87.6
93708/93127D	179.972	317.5	146.05	111.125	1.6	3.6	990	2120	1	224	306	1.6	3.6	0.52	1.3	1.9	1.3	46.9
93708/93128XD	179.972	319.976	146.05	111.125	1.6	3.6	990	2120	1	224	307	1.6	3.6	0.52	1.3	1.9	1.3	49.1
LL537649/LL537610D	184.15	236.538	55.56	41.275	0.8	1.5	265	580	1	199	230	0.8	1.5	0.37	1.8	2.7	1.8	5.5
LM637349NW/LM637310D	184.15	242.888	95.25	69.85	0.8	3.6	425	1200	2	199	236	0.8	3.6	0.42	1.6	2.4	1.6	11.5
67883/67820D	184.15	266.7	103.188	84.138	0.8	3.6	590	1440	1	212	260	0.8	3.6	0.48	1.4	2.1	1.4	18.4
67884/67820D	187.325	266.7	103.188	84.138	0.8	3.6	614	1520	1	199.5	256.5	0.8	3.6	0.48	1.41	2.11	1.38	18
M238849/M238810D	187.325	269.875	119.062	93.662	1.6	3.6	704	1610	1	199.5	255	1.6	3.6	0.33	2.03	3.02	1.98	20.4
87737/87112D	187.325	282.575	107.95	79.375	1.6	3.6	702	1450	1	199.5	266.3	1.6	3.6	0.42	1.62	2.42	1.59	21.4
H239649/H239612D	187.325	320.675	185.738	138.112	1.6	5.6	1470	2530	1	222	309	1.6	5.6	0.32	2.1	3.2	2.1	51.6
222075/222127D	187.325	320.675	185.738	138.112	1.6	5.6	1280	2450	1	203.5	297.9	1.6	5.6	0.4	1.68	2.5	1.64	55
H239649NA/H239612D	187.325	320.675	185.738	138.112	1.6	5.6	1470	2530	2	222	309	1.6	5.6	0.32	2.1	3.2	2.1	51.8
67885/67820D	190.5	266.7	103.188	84.138	0.8	3.6	590	1440	1	215	260	0.8	3.6	0.48	1.4	2.1	1.4	16.9
87750/87112D	190.5	282.575	107.95	79.375	1.6	3.6	615	1200	1	217	273	1.6	3.6	0.42	1.6	2.4	1.6	20.2
93750/93127D	190.5	317.5	146.05	111.125	1.6	4.3	990	2120	1	231	306	1.6	4.3	0.52	1.3	1.9	1.3	43.7
93750/93128XD	190.5	319.977	146.05	111.125	1.6	4.3	1040	2270	1	204.1	294.5	1.6	4.3	0.52	1.29	1.92	1.26	44.8
EE420751/421451D	190.5	368.3	193.675	136.525	1.6	6.4	1610	2920	1	208.3	334	1.6	6.4	0.4	1.68	2.5	1.64	85.2
67887/67820D	192.088	266.7	103.188	84.138	0.8	10.4	614	1520	1	217.9	256.5	0.8	10.4	0.48	1.41	2.11	1.38	16.6
87762/87112D	193.675	282.575	107.95	79.375	1.6	3.6	702	1450	1	205.9	266.3	1.6	3.6	0.42	1.62	2.42	1.59	19.8
L540049/L540010D	196.85	254	61.91	47.625	0.8	1.5	305	715	1	213	247	0.8	1.5	0.4	1.7	2.5	1.7	7.4
LM739749/LM739710D	196.85	257.175	85.725	66.675	0.8	3.6	459	1260	1	209.1	247	0.8	3.6	0.45	1.51	2.25	1.48	11.2
93775/93127D	196.85	317.5	146.05	111.125	1.6	4.3	990	2120	1	234	306	1.6	4.3	0.52	1.3	1.9	1.3	41.5
93775/93128XD	196.85	319.977	146.05	111.125	1.6	4.3	1040	2270	1	210.5	294.5	1.6	4.3	0.52	1.29	1.92	1.26	42.6
M241543/M241510D	200.025	292.1	125.415	101.6	1.6	4.3	915	2070	1	219	279	1.6	4.3	0.33	1.03	3.02	1.98	24.8
93787/93127D	200.025	317.5	146.05	111.125	1.6	4.3	1040	2270	1	214.6	294.5	1.6	4.3	0.52	1.29	1.92	1.26	40.5
93787/93128XD	200.025	319.977	146.05	111.125	1.6	4.3	1040	2270	1	214.6	294.5	1.6	4.3	0.52	1.29	1.92	1.26	41.5
HM743337/HM743310D	200.025	333.375	149.225	114.3	1.6	6.4	1210	240	1	218.8	315.5	1.6	6.4	0.44	1.54	2.29	1.5	49.4
EE130787/131401D	200.025	355.6	152.4	111.125	1.6	6.4	1190	2470	1	250	340	1.6	6.4	0.33	3	0.33	2	60.3
EE130787/131402D	200.025	355.6	158.75	117.475	0.8	6.8	1190	2470	1	250	341	0.8	6.8	0.33	3	0.33	2	62.4
H247535/H247510D	200.025	384.175	238.125	193.675	1.6	6.4	2090	4450	1	258	369	1.6	6.4	0.33	3	0.33	2	122
93787/93127D	200.025	317.5	146.05	111.125	1.6	4.3	1110	2280	1	225	300	1.6	4.3	0.52	1.3	1.9	1.3	41.5
EE420793/421451D	201.612	368.3	193.675	136.525	1.6	4.3	1500	2690	1	246	353	1.6	4.3	0.42	2.4	0.42	1.6	77.2
LM241149/LM241110D	203.2	276.225	90.485	73.025	0.8	3.6	580	1240	1	224	269	0.8	3.6	0.32	3.2	0.32	2.1	13.9
LM241149NW/LM241110D	203.2	276.225	95.25	73.025	0.8	3.6	580	1240	2	226	269	0.8	3.6	0.32	2.1	3.2	2.1	14.7
67983/67920D	203.2	282.575	101.6	82.55	0.8	3.6	598	1410	1	216.4	271.5	0.8	3.6	0.51	1.33	1.97	1.3	18.3
67983/67921D	203.2	282.575	107.95	88.9	0.8	3.6	598	1410	1	216.4	271.5	0.8	3.6	0.51	1.33	1.97	1.3	19.3
M241547/M241510D	203.2	292.1	125.415	101.6	1.6	3.6	930	2100	1	229	283	1.6	3.6	0.33	3	0.33	2	25.7
132083/132126D	203.2	317.5	120.65	88.9	1.6	6.4	753	1450	1	222	292.3	1.6	6.4	0.31	2.15	3.21	2.11	30.9
EE132083/132126D	203.2	317.5	127	88.9	1.6	4	790	1450	1	232	302	1.6	4	0.31	3.2	0.31	2.1	30.6
93800/93127D	203.2	317.5	146.05	111.125	1.6	4	990	2120	1	237	306	1.6	4	0.52	1.9	0.52	1.3	39
93800A/93127D	203.2	317.5	146.05	111.125	1.6	7.9	1040	2270	1	225	294.5	1.6	7.9	0.52	1.29	1.92	1.26	39.2
93800/93128D	203.2	319.976	146.05	111.125	1.6	4.3	990	2120	1	237	307	1.6	4.3	0.52	1.9	0.52	1.3	40.5

EE420801/421451D	203.2	368.3	193.675	136.525	1.6	3.2	1500	2690	1	246	353	1.6	3.2	0.42	2.4	0.42	1.6	76.4
EE420801/421462XD	203.2	371.475	193.675	136.525	1.6	3.2	1610	2920	1	215.6	334	1.6	3.2	0.4	1.68	2.5	1.64	81.3
EE114080/114161D	203.2	406.4	196.85	127	3.2	6.4	1600	2610	1	260	386	3.2	6.4	0.79	0.85	1.3	0.83	102
EE114081/114161D	203.238	406.4	196.85	127	3.2	6.4	1630	2920	1	222	367.5	3.2	6.4	0.79	0.85	1.27	0.83	105
M241549/M241510D	203.238	292.1	125.415	101.6	1.6	3.6	934	2050	1	218	277.7	1.6	3.6	0.33	2.03	3.02	1.98	24.4
93806A/93127D	203.238	317.5	146.05	111.125	1.6	4.3	1040	2270	1	219.4	294.5	1.6	4.3	0.52	1.29	1.92	1.26	38.8
93806A/93128XD	203.238	319.977	146.05	111.125	1.6	4.3	1040	2270	1	219.4	294.5	1.6	4.3	0.52	1.29	1.92	1.26	39.8
67985/67920D	206.375	282.575	101.6	82.55	0.8	3.6	630	1600	1	231	276	0.8	3.6	0.51	2	0.51	1.3	18.2
67985/67921D	206.375	282.575	107.95	88.9	0.8	3.6	598	1410	1	219.6	271.5	0.8	3.6	0.51	1.33	1.97	1.3	18.4
EE132084/132126D	206.375	317.5	127	88.9	1.6	4	790	1450	1	234	302	1.6	4	0.31	3.2	0.31	2.1	29.6
H242649/H242610D	206.375	336.55	211.138	169.862	1.6	3.2	2014	4085	1	242	325	1.6	3.2	0.33	2	3	2	70
67989/67920D	209.55	282.575	101.6	82.55	0.8	3.6	598	1410	1	222.8	271.5	0.8	3.6	0.51	1.33	1.97	1.3	16.7
93825/93127D	209.55	317.5	146.05	111.125	1.6	4.3	990	2120	1	240	306	1.6	4.3	0.52	1.3	1.9	1.3	37.1
93825A/93127D	209.55	317.5	146.05	111.125	1.6	12.7	1040	2270	1	241	294.5	1.6	12.7	0.52	1.29	1.92	1.26	36.7
HM743345/HM743310D	209.55	333.375	149.225	114.3	1.6	6.4	1180	2380	1	247	322	1.6	6.4	0.44	1.5	2.3	1.5	45.3
96825/96140D	209.55	355.6	152.4	111.125	1.6	7.1	1130	2630	1	229.8	331.4	1.6	7.1	0.59	1.14	1.7	1.12	60
LM742745/LM742710D	212.725	285.75	98.425	76.2	0.8	3.6	600	1510	1	237	280	0.8	3.6	0.48	1.4	2.1	1.4	16.8
LM742745/LM742714D	212.725	288.925	98.425	76.2	0.8	3.6	611	1560	1	225.9	276.4	0.8	3.6	0.48	1.4	2.09	1.37	17.6
LM742749/LM742710D	215.9	285.75	98.425	76.2	0.8	3.6	611	1560	1	229.1	276.4	0.8	3.6	0.48	1.4	2.09	1.37	15.9
543085/543115D	215.9	287.338	69.85	50.8	0.8	3.6	396	945	1	229.1	272.4	0.8	3.6	0.38	1.76	2.62	1.72	11.4
LM742749/LM742714D	215.9	288.925	98.425	76.2	0.8	3.6	611	1560	1	229.1	276.4	0.8	3.6	0.48	1.4	2.09	1.37	16.8
EE130851/131401D	215.9	355.6	152.4	111.125	1.6	6.8	1250	2610	1	235.3	330	1.6	6.8	0.33	2.04	3.04	2	55.7
EE130851/131402D	215.9	355.6	158.75	117.475	0.8	6.8	1250	2610	1	235.3	330	0.8	6.8	0.33	2.04	3.04	2	57.6
EE820085/820161D	215.9	406.4	195.262	147.638	1.6	6.4	2040	3600	1	267	389	1.6	6.4	0.39	1.7	2.5	1.7	101
543086/543115D	219.075	358.775	196.85	181.44	1.6	6.4	1660	3590	1	237.9	337.2	1.6	6.4	0.33	2.03	3.02	1.98	78.3
543086/543115D	219.969	287.338	69.85	50.8	0.8	3.6	396	94	1	233.2	272.4	0.8	3.6	0.38	1.76	2.62	1.72	10.6
M244249/M244210D	220.662	314.325	131.762	106.362	1.6	6.4	1020	2390	1	250	305	1.6	6.4	0.33	2	3	2	30.9
EE130889/131401D	225.425	355.6	152.4	111.125	1.6	6.8	1190	2470	1	263	340	1.6	6.8	0.33	2	3	2	50.2
EE130889/131402D	225.425	355.6	158.75	117.475	0.8	6.7	1250	2610	1	244.8	330	0.8	6.7	0.33	2.04	3.04	2	53.6
EE430888/431576D	225.425	400.05	187.325	136.525	1.6	1.5	1620	3000	1	266	379	1.6	1.5	0.44	1.5	2.3	1.5	88
EE113089/113171D	228.397	431.8	196.85	111.125	3.2	6.4	1520	2640	1	287	410	3.2	6.4	0.88	0.77	1.1	0.75	105
EE113091/113171D	228.46	431.8	196.85	111.125	3.2	6.4	1700	2890	1	247.3	396.8	3.2	6.4	0.88	0.76	1.14	0.75	111
8573/8520D	228.6	327.025	114.3	82.55	1.6	6.4	800	2014	1	261	316	1.6	6.4	0.4	1.7	2.5	1.6	30
8573/8522D	228.6	328.625	114.3	82.55	1.6	6.4	802	1860	1	247.4	309.8	1.6	6.4	0.41	1.66	2.47	1.62	28.8
130902/131401D	228.6	355.6	146.05	111.125	1.6	6.4	1250	2610	1	247.4	330	1.6	6.4	0.33	2.04	3.04	2	49.4
EE130902/131401D	228.6	355.6	152.4	111.125	1.6	7	1190	2470	1	265	340	1.6	7	0.33	2	3	2	48.8
96900/96140D	228.6	355.6	152.4	111.125	1.6	7	1030	2340	1	270	342	1.6	7	0.59	1.1	1.7	1.1	51
HM746646/HM746610D	228.6	355.6	152.4	114.3	1.6	6.4	1310	2590	1	266	345	1.6	6.4	0.47	1.4	2.1	1.4	49.1
EE130902/131401D	228.6	355.6	152.4	111.125	1.6	7	1250	2610	1	248	330	1.6	7	0.33	2.04	3.04	2	50.4
96900/96140D	228.6	355.6	152.4	111.125	1.6	7	1130	2630	1	248.8	331.4	1.6	7	0.59	1.14	1.7	1.12	52.3
EE130902/131402D	228.6	355.6	158.75	117.475	0.8	6.8	1190	2470	1	265	341	0.8	6.8	0.33	2	3	2	50.4
M249732/M249710D	228.6	358.775	152.4	117.475	1.6	3.6	1463	3372	1	256	343	1.6	3.6	0.33	2	3	2	57
EE430902/431576D	228.6	400.05	17.325	136.525	1.6	19.8	1690	3210	1	274.2	363.1	1.6	19.8	0.44	1.54	2.29	1.5	86.7
EE430900/431576D	228.6	400.05	187.325	136.525	1.6	10.4	1620	3000	1	277	379	1.6	10.4	0.44	1.5	2.3	1.5	86.1
EE700091/700168D	228.6	425.45	209.55	158.75	1.6	7	2200	4000	1	281	406	1.6	7	0.33	2	3	2	118
HH949549/HH949510D	228.6	488.95	254	152.4	1.6	6.4	2774	4275	1	307	470	1.6	6.4	0.94	0.7	1.1	0.7	205
M249734/M249710D	231.775	358.775	152.4	117.475	1.6	6.4	1330	3170	1	250.6	342.1	1.6	6.4	0.33	2.03	3.02	1.98	55
LM446349/LM446310D	234.95	311.15	98.425	73.025	0.8	3.6	640	1610	1	259	304	0.8	3.6	0.36	1.9	2.8	1.8	18.8
LM446349NW/LM446310D	234.95	311.15	101.6	73.025	0.8	3.6	640	1610	2	259	304	0.8	3.6	0.36	1.9	2.8	1.8	19.3

8575/8520D	234.95	327.025	114.3	82.55	1.6	6.4	805	1880	1	264	316	1.6	6.4	0.41	1.7	2.5	1.6	26.1
8575/8522D	234.95	328.625	114.3	82.55	1.6	6.4	802	1860	1	253.8	309.8	1.6	6.4	0.41	1.66	2.47	1.62	26.7
96925/96140D	234.95	355.6	152.4	111.125	1.6	7	1030	2340	1	273	342	1.6	7	0.59	1.1	1.7	1.1	48.3
H247549/H247510D	234.95	384.175	238.125	193.675	1.6	6.4	2090	4450	1	276	369	1.6	6.4	0.33	2	3	2	99.7
M249736/M249710D	237.33	358.775	152.4	117.475	1.6	6.4	1330	3170	1	256.1	342.1	1.6	6.4	0.33	2	3	2	52.6
8578/8520D	241.3	327.025	114.3	82.55	1.6	6.4	805	1880	1	267	316	1.6	6.4	0.41	1.7	2.5	1.6	23.9
8578/8522D	241.3	328.625	114.3	82.55	1.6	6.4	802	1860	1	260.1	309.8	1.6	6.4	0.41	1.66	2.47	1.62	24.6
EE127095/127136D	241.3	349.148	127	101.6	1.6	6.4	950	2050	1	260.1	329.6	1.6	6.4	0.35	1.91	2.84	1.86	36.4
EE127095/127137D	241.3	350.838	127	101.6	1.6	6.4	980	2130	1	274	338	1.6	6.4	0.35	1.9	2.8	1.9	36.9
EE127095/127139D	241.3	355.498	127	101.6	1.6	6.4	980	2130	1	274	341	1.6	6.4	0.35	1.9	2.8	1.9	38.9
EE170950/171451D	241.3	368.3	120.65	85.725	1.6	6.4	870	1850	1	260.1	335.8	1.6	6.4	0.36	1.86	2.77	1.82	41.7
EE275095/275156D	241.3	393.7	157.162	109.538	1.6	6.4	1200	2570	1	293	382	1.6	6.4	0.4	1.7	2.5	1.6	68
EE275095/275161D	241.3	406.4	155.58	107.95	1.6	6.4	1200	2570	1	293	389	1.6	6.4	0.4	1.7	2.5	1.6	74.2
H249148/H249111D	241.3	406.4	215.9	184.15	1.6	6.4	2220	4450	1	287	392	1.6	6.4	0.33	2	3	2	105
EE923095/923176D	241.3	444.5	209.55	158.75	1.6	6.4	2410	4500	1	295	423	1.6	6.4	0.34	2	3	2	133
EE295950/295192D	241.3	488.95	254	196.85	1.6	6.4	2950	5700	1	315	469	1.6	6.4	0.31	2.2	3.2	2.1	207
EE127096/127136D	244.475	349.148	133.35	101.6	1.6	6.4	950	2050	1	263.3	329.6	1.6	6.4	0.35	1.91	2.84	1.86	36.3
EE126097/126149D	244.475	380.898	171.45	127	1.6	6.4	1350	2930	1	263.3	356.4	1.6	6.4	0.52	1.31	1.95	1.28	65.9
EE126097/126151D	244.475	381	171.45	127	1.6	6.4	1410	3100	1	286	367	1.6	6.4	0.52	1.3	1.9	1.3	65.1
EE170975/171451D	247.65	368.3	120.65	85.725	1.6	6.4	870	1850	1	266.5	335.8	1.6	6.4	0.36	1.86	2.77	1.82	39.4
HH249949/HH249910D	247.65	406.4	247.65	203.2	1.6	6.4	2770	6250	1	266.5	382.5	1.6	6.4	0.33	2.03	3.02	1.98	123
EE126098/126149D	249.25	380.898	171.45	127	1.6	6.4	1350	2930	1	268.1	356.4	1.6	6.4	0.52	1.31	1.95	1.28	63.5
EE126098/126151D	249.25	381	171.45	127	1.6	6.4	1410	3100	1	288	367	1.6	6.4	0.52	1.3	1.9	1.3	62.6
29875/29820D	254	323.85	63.5	50.8	0.8	1.5	263	760	1	276	315	0.8	1.5	0.35	1.9	2.9	1.9	12.4
LM249748/LM249710D	254	347.662	95.25	69.85	1.6	3.6	755	1610	1	278	336	1.6	3.6	0.33	2	3	2	23.1
LM249747NW/LM249710D	254	347.662	101.6	69.85	1.6	3.6	780	1760	2	285	338	1.6	3.6	0.33	2	3	2	25.3
M249749/M249710D	254	358.775	152.4	117.475	1.6	3.6	1300	3100	1	284	348	1.6	3.6	0.33	2	3	2	44.6
EE134100/134144D	254	365.125	130.175	98.425	1.6	6.4	990	2200	1	289	354	1.6	6.4	0.37	1.8	2.7	1.8	39.8
EE275100/275156D	254	393.7	157.162	109.538	1.6	6.4	1200	2570	1	299	382	1.6	6.4	0.4	1.7	2.5	1.6	61.9
EE275100/275161D	254	406.4	155.575	107.95	1.6	6.4	1270	3090	1	272.8	377.8	1.6	6.4	0.4	1.68	2.5	1.64	73.4
HM252343/HM252311D	254	422.275	173.038	128.588	1.6	6.8	1950	3700	1	301	408	1.6	6.8	0.33	2	3	2	86.6
HM252349NA/HM252311D	254	422.275	173.038	128.588	1.6	6.8	1730	3360	1	263.2	397.9	1.6	6.8	0.33	2.03	3.02	1.98	87.3
HM252344/HM252311D	254	422.275	173.038	128.588	1.6	6.4	1950	3700	2	301	408	1.6	6.4	0.33	2	3	2	86.8
HM252343/HM252310D	254	422.275	178.592	139.7	1.6	6.8	2128	3847	1	301	408	1.6	6.8	0.33	2	3	2	97.5
HM252343/HM252312D	254	422.91	178.592	139.7	1.6	6.8	1730	3360	1	273.4	399.1	1.6	6.8	0.33	2.03	3.02	1.98	90.3
HM252343/HM252315D	254	431.724	173.038	128.588	1.6	6.8	1730	3360	1	273.4	397.9	1.6	6.8	0.33	2.03	3.02	1.98	93.3
551002/551701D	254	431.724	173.038	128.588	1.6	6.4	1680	3420	1	272.8	388.3	1.6	6.4	0.33	2.03	3.02	1.98	93
HM252343NA/HM252315D	254	431.724	173.038	128.588	1.6	6.4	1950	3700	2	301	413	1.6	6.4	0.33	2	3	2	93.4
EE822100/822176D	254	444.5	165.1	114.3	1.6	6.4	1470	2770	1	272.8	406.2	1.6	6.4	0.42	1.62	2.42	1.59	93.9
EE941002/941951XD	254	495.3	162.245	120.65	1.6	6.4	1750	3220	1	272.8	455.7	1.6	6.4	0.4	1.68	2.5	1.64	135
EE941002/941953D	254	495.3	168.595	127	1.6	6.4	1750	3220	1	272.8	455.7	1.6	6.4	0.4	1.68	2.5	1.64	139
HH953749/HH953710D	254	533.4	276.225	165.1	1.6	6.4	3296	5225	1	332	511	1.6	6.4	0.94	0.7	1.1	0.7	260
EE221018/221576D	258.763	400.05	155.575	107.95	1.6	9.5	1300	2570	1	283.8	371.2	1.6	9.5	0.39	1.71	2.54	1.67	59.2
EE134102/134144D	260.35	365.125	130.175	98.425	1.6	6.4	990	2200	1	293	354	1.6	6.4	0.37	1.8	2.7	1.8	37.2
221026/221576D	260.35	400.05	146.05	107.95	1.6	6.4	1300	2570	1	279.2	371.2	1.6	6.4	0.39	1.71	2.54	1.67	56.7
EE221026/221576D	260.35	400.05	155.575	107.95	1.6	9.7	1260	2440	1	300	383	1.6	9.7	0.39	1.7	2.5	1.7	58.3
EE128102/128160D	260.35	406.4	149.225	117.475	1.6	3.2	1290	2870	1	302	391	1.6	3.2	0.39	1.8	2.6	1.7	66.8
EE435102/435165D	260.35	419.1	184.15	136.525	1.6	3.2	1580	3250	1	295	395	1.6	3.2	0.61	1.11	1.66	1.09	86.8
HM252349/HM252311D	260.35	422.275	173.038	128.588	1.6	6.8	1950	3700	1	304	408	1.6	6.8	0.33	2	3	2	83.1

HM252349/HM252310D	260.35	422.275	178.592	139.7	1.6	6.8	2128	3847	1	304	408	1.6	6.8	0.33	2	3	2	86.5
EE551026/551663D	260.35	422.275	178.598	139.7	1.6	6.8	1670	3200	1	302	404	1.6	6.8	0.33	2	3	2	85.3
HM252349/HM252312D	260.35	422.91	178.592	139.7	1.6	6.8	1730	3360	1	279.8	399.1	1.6	6.8	0.33	2.03	3.02	1.98	86.7
HM252349/HM252315D	260.35	431.724	173.038	128.588	1.6	6.8	1730	3360	1	279.8	397.9	1.6	6.8	0.33	2.03	3.02	1.98	89.9
HM252349NA/HM252315D	260.35	431.724	173.038	128.588	1.6	6.4	1950	3700	2	304	413	1.6	6.4	0.33	2	3	2	89.9
EE295102/295192D	260.35	488.95	254	196.85	1.6	6.4	2950	5700	1	325	469	1.6	6.4	0.31	2.2	3.2	2.1	193
HM252348NA/HM252315D	260.35	731.724	173.038	128.588	1.6	6.4	1730	3360	1	279.2	397.9	1.6	6.4	0.33	2.03	3.02	1.98	90
LM451345/LM451310D	263.525	355.6	127	101.6	1.6	3.6	1040	2550	1	276.7	342.6	1.6	3.6	0.36	1.87	2.79	1.83	33.1
LM451345/LM451312D	263.525	357.2	127	101.6	1.6	3.6	1040	2550	1	276.7	342.6	1.6	3.6	0.36	1.87	2.79	1.83	33.8
29880/29820D	266.7	323.85	63.5	50.8	0.8	1.6	252	723	1	275.9	307.1	0.8	1.6	0.35	1.95	2.9	1.91	9.57
LM251649NW/LM251610D	266.7	352.425	107.95	82.55	1.6	6.4	855	2110	2	295	343	1.6	6.4	0.32	2.1	3.2	2.1	26.3
LM451349/LM451310D	266.7	355.6	127	101.6	1.6	3.6	1060	2520	1	292	348	1.6	3.6	0.36	1.9	2.8	1.8	31.2
LM451349A/LM451310D	266.7	355.6	127	101.6	1.6	10.4	1040	2550	1	293.5	342.6	1.6	10.4	0.36	1.87	2.79	1.83	31.5
LM451349/LM451312D	266.7	357.2	127	101.6	1.6	3.6	1060	2520	1	292	348	1.6	3.6	0.36	1.9	2.8	1.8	32
EE275105/275156D	266.7	393.7	157.162	109.538	1.6	6.4	1200	2570	1	306	382	1.6	6.4	0.4	1.7	2.5	1.6	56.6
EE275105/275161D	266.7	406.4	155.575	107.95	1.6	6.4	1200	2570	1	306	389	1.6	6.4	0.4	1.7	2.5	1.6	62.8
EE551050/551663D	266.7	422.275	178.598	139.7	1.6	6.8	1670	3200	1	306	404	1.6	6.8	0.33	2	3	2	81.6
EE551050/551701D	266.7	431.724	173.038	128.588	1.6	6.8	1670	3200	1	306	408	1.6	6.8	0.33	2	3	2	84.9
M252349/M252310D	269.875	381	158.75	123.825	1.6	6.4	1360	3200	1	304	370	1.6	6.4	0.33	2	3	2	51.6
EE275108/275156D	273.05	393.7	157.162	109.538	1.6	6.4	1200	2570	1	309	382	1.6	6.4	0.4	1.7	2.5	1.6	53.3
EE275108/275161D	273.05	406.4	155.575	107.95	1.6	6.4	1270	3090	1	291.9	377.8	1.6	6.4	0.4	1.68	2.5	1.64	63.8
L555233/L555210D	279.4	374.65	104.775	79.375	1.6	6.4	810	2020	1	300	362	1.6	6.4	0.4	1.68	2.5	1.64	28.5
EE722110/722186D	279.4	469.9	200.025	149.225	1.6	9.7	2030	4150	1	336	451	1.6	9.7	0.38	1.8	2.7	1.7	127
EE295110/295192D	279.4	488.95	254	196.85	1	1.3	2950	5700	1	329	469	1	1.3	0.31	2.2	3.2	2.1	177
LM654642/LM654610D	279.982	380.898	139.7	107.95	1.6	3.6	1140	2820	1	293.2	370.2	1.6	3.6	0.43	1.57	2.34	1.53	42.7
EE128114/128160D	280	406.4	149.225	117.475	1.6	6.4	1290	2870	1	315	391	1.6	6.4	0.39	1.8	2.6	1.7	56.9
EE101103/101601D	280.192	406.4	120.65	85.725	1.6	6.8	890	1740	1	315	391	1.6	6.8	0.41	1.7	2.5	1.6	42.5
EE128111/128160D	280.192	406.4	149.225	117.475	1.6	6.8	1290	2870	1	316	391	1.6	6.8	0.39	1.8	2.6	1.7	56.8
545112/545142D	285.75	358.775	76.2	53.975	1.6	3.6	430	1150	1	307	348	1.6	3.6	0.49	1.4	2	1.3	15.8
LM654649/LM654610D	285.75	380.898	139.7	107.95	1.6	3.6	1168	3040	1	316	371	1.6	3.6	0.43	1.6	2.3	1.6	42
EE921124/921851D	285.75	469.9	177.785	127	1.6	9.7	1890	3600	1	338	450	1.6	9.7	0.29	2.3	3.4	2.3	105
EE921124/921876D	285.75	476.25	177.785	127	1.6	9.7	1960	3460	1	310.8	439.8	1.6	9.7	0.29	2.31	3.44	2.26	111
EE147112/147198D	285.75	501.65	203.2	120.65	3.2	6.4	2160	4100	1	350	483	3.2	6.4	0.83	0.81	1.2	0.79	151
M255449/M255410DC	288.925	406.4	165.1	130.175	1.6	6.4	1843	4270	1	324	395	1.6	6.4	0.33	2	3	2	63
M255448/M255410D	288.925	406.4	165.1	130.175	1.6	9.5	1720	4420	1	313.9	387.5	1.6	9.5	0.34	2	2.97	1.95	64.6
L555249/L555210D	292.1	374.65	104.775	79.375	1.6	6.4	810	2020	1	309	362	1.6	6.4	0.4	1.68	2.5	1.64	25.2
EE722115/722186D	292.1	469.9	200.025	149.225	1.6	9.5	2100	4370	1	317.1	430.1	1.6	9.5	0.38	1.79	2.67	1.75	118
EE224115/224205D	292.1	520.7	228.6	165.1	1.6	6.4	2660	4900	1	345	492	1.6	6.4	0.33	2.1	3.1	2	180
EE790114/790223D	292.1	558.8	298.45	222.25	1.6	6.4	4250	8200	1	362	537	1.6	6.4	0.39	1.7	2.5	1.7	312
EE790116/790223D	292.1	558.8	298.45	222.25	1.6	19.8	4040	8000	1	337.7	515	1.6	19.8	0.4	1.71	2.54	1.67	306
EE291175/291751D	298.45	444.5	146.05	98.425	1.6	8	1170	2280	1	339	427	1.6	8	0.38	1.8	2.7	1.7	63.9
HH258248/HH258210D	299.974	495.3	301.625	247.65	1.6	8	4200	9800	1	342	467	1.6	8	0.33	2.03	3.02	1.98	205
HM256849/HM256810D	300.038	422.275	174.625	136.525	1.6	6.4	1950	4520	1	337	411	1.6	6.4	0.33	2	3	2	71.5
329115/329173D	300.787	438.048	161.925	123.825	1.6	6.4	1510	3450	1	320.6	411.6	1.6	6.4	0.33	2.04	3.04	2	74.4
L357049/L357010D	304.8	393.7	107.95	82.55	1.6	6.4	910	2280	1	334	385	1.6	6.4	0.36	1.9	2.8	1.8	30
L357049NW/L357010D	304.8	393.7	107.95	82.55	1.6	6.4	910	2280	2	335	385	1.6	6.4	0.36	1.9	2.8	1.8	30.2
EE109120/109163D	304.8	412.75	123.825	92.075	1.6	6.4	1090	2520	1	337	401	1.6	6.4	0.43	1.6	2.4	1.6	42.1
329120/329173D	304.8	438.048	161.925	123.825	1.6	6.4	1510	3450	1	324.6	411.6	1.6	6.4	0.33	2.04	3.04	2	72
EE129120X/129120D	304.8	438.048	165.1	120.65	1.6	6.4	1380	3200	1	334	411	1.6	6.4	0.42	1.62	2.42	1.59	71.4

291201/291751D	304.8	444.5	139.7	98.425	1.6	6.4	1240	2760	1	324.6	413.5	1.6	6.4	0.38	1.79	2.66	1.75	64.5
EE291201/291751D	304.8	444.5	146.05	98.425	1.6	8	1170	2280	1	342	427	1.6	8	0.38	1.8	2.7	1.7	60.5
EE941205/941951XD	304.8	495.3	162.245	120.65	1.6	6.4	1750	3220	1	324.6	455.7	1.6	6.4	0.4	1.68	2.5	1.64	107
EE941205/941953D	304.8	495.3	168.595	127	1.6	6.4	1840	3550	1	352	471	1.6	6.4	0.4	1.7	2.5	1.7	111
EE724119/724196D	304.8	495.3	195.85	146.05	1.6	16	2180	4680	1	343.8	457.4	1.6	16	0.4	1.68	2.5	1.64	135
EE724120/724196D	304.8	495.3	196.85	146.05	1.6	16	2130	4300	1	364	474	1.6	16	0.4	1.7	2.5	1.6	130
EE790120/790223D	304.8	558.8	298.45	222.25	1.2	1.6	4250	8200	1	364	537	1.2	1.6	0.39	1.7	2.5	1.7	298
EE148122/148221D	311.15	558.8	190.5	111.125	3.2	9.7	2140	4250	1	377	521	3.2	9.7	0.88	0.77	1.1	0.75	173
EE291250/291751D	317.5	444.5	146.05	98.425	1.6	8	1170	2280	1	349	427	1.6	8	0.38	1.8	2.7	1.7	53.4
HM259049/HM259010D	317.5	447.675	180.975	146.05	1.6	3.6	2210	5130	1	353	435	1.6	3.6	0.33	2	3	2	84
H961649/H961610D	317.5	622.3	304.8	174.625	3.2	14.3	3900	7550	1	414	597	3.2	14.3	0.94	0.72	1.1	0.7	386
EE971298/972102D	329.87	533.4	165.1	114.3	1.6	4.7	1810	3600	1	383	510	1.6	4.7	0.33	2	3	2	125
EE971298/972103D	329.87	533.4	174.635	123.825	1.6	4.7	1810	3600	1	383	510	1.6	4.7	0.33	2	3	2	130
EE971298/972151D	329.87	546.1	177.8	152.4	3.2	4.7	1810	3600	1	383	517	3.2	4.7	0.33	2	3	2	151
EE161300/161901	330.2	482.6	133.35	88.9	1.6	7	1210	2840	1	377	465	1.6	7	0.5	1.4	2	1.3	73.6
EE161300/161901D	330.2	482.6	133.35	88.9	1.6	7	1050	2500	1	351.4	453.4	1.6	7	0.5	1.35	2.01	1.32	74.8
EE526130/526191D	330.2	482.6	177.8	127	1.6	3.2	2130	4750	1	370	465	1.6	3.2	0.4	1.7	2.5	1.6	100
HM261049/HM261010D	333.375	469.9	190.5	152.4	1.6	6.4	2340	5400	1	375	457	1.6	6.4	0.33	2	3	2	98
LM961548/LM961511D	342.9	457.098	142.875	101.6	1.6	3.2	1170	3050	1	378	444	1.6	3.2	0.71	0.95	1.4	0.93	59.4
EE971354/972102D	342.9	533.4	165	114.3	1.6	4.7	1810	3600	1	390	510	1.6	4.7	0.33	2	3	2	116
EE971354/972103D	342.9	533.4	174.63	123.825	1.6	4.8	2261	4180	1	390	510	1.6	4.8	0.33	2	3	2	130
EE971354/972151D	342.9	546.1	177.8	152.4	3.2	4.7	1810	3600	1	390	517	3.2	4.7	0.33	2	3	2	141
EE161363/161901D	346.075	482.6	133.35	88.9	1.6	7	1210	2840	1	385	465	1.6	7	0.5	1.4	2	1.3	64.8
HM262749/HM262710D	346.075	488.95	200.025	158.75	1.6	6.4	2500	5980	1	386	475	1.6	6.4	0.33	2	3	2	110
EE333137/333203D	349.25	514.35	193.675	152.4	1.6	6.4	2270	5450	1	394	495	1.6	6.4	0.37	1.8	2.7	1.8	130
EE161394/161901D	354.013	482.6	133.35	88.9	1.6	7	1050	2500	1	375.2	453.4	1.6	7	0.5	1.35	2.01	1.32	61.6
L163149/L163110D	355.6	444.5	136.525	111.125	1.6	3.6	1180	3460	1	381	435	1.6	3.6	0.31	2.2	3.3	2.2	46
EE161400/161901D	355.6	482.6	133.35	88.9	1.6	7	1210	2840	1	390	465	1.6	7	0.5	1.4	2	1.3	59.3
EE231400/231976D	355.6	501.65	155.575	107.95	1.6	6.4	1740	4040	1	403	489	1.6	6.4	0.44	1.5	2.3	1.4	87
EE333140/333203D	355.6	514.35	193.675	152.4	1.6	6.4	2270	5450	1	397	495	1.6	6.4	0.37	1.8	2.7	1.8	125
HM265049/HM265010D	368.249	523.875	214.312	169.862	1.6	6.4	2980	7130	1	400	499	1.6	6.4	0.33	2	3	2	140
EE181453/182351D	368.3	596.9	203.2	133.35	2.3	9.7	2930	5560	1	428	570	2.3	9.7	0.41	1.7	2.5	1.6	188
231462/231976DC	371.475	501.65	155.575	107.95	1.6	6.4	1740	4040	1	411	489	1.6	6.4	0.44	1.5	2.3	1.4	76.5
EE231462/232026D	371.475	514.35	155.575	107.95	1.6	6.4	1360	3300	1	411	495	1.6	6.4	0.44	1.5	2.3	1.5	83.8
EE192148/192201D	377.825	508	139.7	88.9	1.6	6.4	1180	2980	1	397.6	479.7	1.6	6.4	0.53	1.27	1.89	1.24	68.8
EE192150/192201D	381	508	139.7	88.9	1.6	6.4	1180	2980	1	400.8	479.7	1.6	6.4	0.53	1.27	1.89	1.24	66.7
HM266447/HM266410D	381	546.1	222.25	177.8	1.6	6.4	3150	8000	1	428	531	1.6	6.4	0.33	2	3	2	162
HM268730/HM268710D	381	590.55	244.475	193.675	1.6	6.4	3100	8350	1	425	561	1.6	6.4	0.33	2.03	3.02	1.98	218
LL365340/LL365310D	384.175	441.325	68.262	52.388	1.6	6.4	360	1060	1	399	433	1.6	6.4	0.34	1.99	2.96	1.94	14.1
HM266449/HM266410D	384.175	546.1	222.25	177.8	1.6	6.4	3030	6980	1	429	531	1.6	6.4	0.33	2	3	2	161
LM665949/LM665910D	385.762	514.35	177.8	139.7	1.6	6.4	2120	5550	1	415	495	1.6	6.4	0.42	1.61	2.4	1.58	90
EE234154/234213D	393.7	539.75	142.875	101.6	1.6	6.4	1400	3300	1	438	526	1.6	6.4	0.48	1.4	2.1	1.4	84.7
EE234154/234216D	393.7	546.1	158.75	117.475	1.6	6.4	1400	3300	1	438	529	1.6	6.4	0.48	1.4	2.1	1.4	97
EE234154/234221D	393.7	558.8	146.05	104.775	1.6	6.4	1490	3810	1	413.5	515	1.6	6.4	0.48	1.42	2.11	1.39	104
EE234154/234223D	393.7	560.248	146.05	104.78	1.6	6.4	1400	3300	1	438	536	1.6	6.4	0.48	1.4	2.1	1.4	100
EE234156/234213D	396.875	539.75	142.875	101.6	1.6	6.4	1400	3300	1	439	526	1.6	6.4	0.48	1.4	2.1	1.4	82.5
EE234156/234216D	396.875	546.1	158.75	117.475	1.6	6.4	1400	3300	1	439	529	1.6	6.4	0.48	1.4	2.1	1.4	94.6
EE234156/234221D	396.875	558.8	146.05	104.775	1.6	6.4	1490	3810	1	416.7	515	1.6	6.4	0.48	1.42	2.11	1.39	102
EE234160/234213D	406.4	539.75	142.875	101.6	1.6	6.4	1600	4180	1	444	526	1.6	6.4	0.48	1.4	2.1	1.4	82.6

EE234160/234216D	406.4	546.1	158.75	117.475	1.6	6.4	1400	3300	1	444	529	1.6	6.4	0.48	1.4	2.1	1.4	94.2
M667944/M667910D	406.4	546.1	185.738	144.462	1.6	6.4	2270	5950	1	449	536	1.6	6.4	0.42	1.6	2.4	1.6	113
M667944/M667911D	406.4	546.1	185.738	147.638	1.6	6.4	2270	5950	1	449	537	1.6	6.4	0.42	1.6	2.4	1.6	114
EE234160/234221D	406.4	558.8	146.05	104.775	1.6	6.4	1490	3810	1	427.2	515	1.6	6.4	0.48	1.42	2.11	1.39	95
EE285160/285228D	406.4	574.675	157.162	106.362	1.6	6.8	1580	3700	1	453	552	1.6	6.8	0.5	1.4	2	1.3	111
EE833160X/833233D	406.4	590.55	228.6	174.625	1.6	9.5	3060	7070	1	433.4	560	1.6	9.5	0.32	2.08	3.1	2.04	188
EE736160/736239D	406.4	609.524	177.8	133.35	1.6	8	2590	5600	1	459	585	1.6	8	0.35	1.9	2.9	1.9	163
EE91600/912401D	406.4	609.6	187.325	123.825	1.6	6.8	2520	5500	1	459	586	1.6	6.8	0.38	1.8	2.6	1.7	172
EE571602/572651D	406.4	673.1	192.639	127	1.6	6.4	3000	6200	1	479	646	1.6	6.4	0.4	1.7	2.5	1.7	251
EE571602/572653D	406.4	673.1	192.639	152.4	1.6	6.4	2530	5240	1	427.2	630	1.6	6.4	0.4	1.68	2.5	1.64	242
M667948/M667911D	409.575	546.1	185.738	147.638	1.6	6.4	2280	5740	1	430.4	530	1.6	6.4	0.42	1.62	2.42	1.59	110
EE285162/285228D	409.575	574.675	157.162	106.362	1.6	6.8	1580	3700	1	455	552	1.6	6.8	0.5	1.4	2	1.3	109
EE911618/912401D	411.162	609.6	187.325	123.825	1.6	6.8	2520	5500	1	461	586	1.6	6.8	0.38	1.8	2.6	1.7	167
M268749/M268710DC	415.925	590.55	244.475	193.675	1.6	6.4	3710	9170	1	465	576	1.6	6.4	0.33	2	3	2	205
EE328167/328268D	425.45	685.698	311.15	234.95	3.2	12.7	5200	11400	1	497	661	3.2	12.7	0.4	1.7	2.5	1.7	410
EE241693/242376D	430.213	603.25	153.289	98.425	1.6	6.4	1680	3770	1	451	565	1.6	6.4	0.53	1.28	1.91	1.26	109
EE241693/242377D	430.213	603.25	159.639	104.775	1.6	6.4	1680	3770	1	451	565	1.6	6.4	0.53	1.28	1.91	1.26	113
LM869448/LM869410D	431.8	571.5	155.575	111.125	1.6	3.2	1880	4850	1	471	560	1.6	3.2	0.54	1.25	1.8	1.3	100
EE241701/242376D	431.8	603.25	153.289	98.425	1.6	6.4	1680	3770	1	452.6	565	1.6	6.4	0.53	1.28	1.91	1.26	107
EE241701/242377D	431.8	603.25	159.639	104.775	1.6	6.4	1670	4100	1	446	561	1.6	6.4	0.53	1.28	1.91	1.25	124
EE571703/572651D	431.8	673.1	192.639	127	1.6	6.4	3000	6200	1	491	646	1.6	6.4	0.4	1.7	2.5	1.7	225
EE571703/572653D	431.8	673.1	192.639	152.4	1.6	6.4	3000	6200	1	491	649	1.6	6.4	0.4	1.7	2.5	1.7	235
EE737173/737261D	441.325	660.4	195.262	138.112	1.6	10.4	2650	5550	1	499	636	1.6	10.4	0.37	1.8	2.7	1.8	198
M270749/M270710D	447.675	635	257.175	206.375	1.6	6.4	4180	10450	1	502	617	1.6	6.4	0.33	2	3	2	245
M270749/M270720D	447.675	649.924	257.175	206.375	1.6	6.4	3930	10500	1	468.5	605	1.6	6.4	0.33	2.03	3.02	1.98	272
EE244180/244236D	457.2	596.9	165.1	120.65	1.6	9.7	2050	5220	1	500	581	1.6	9.7	0.4	1.7	2.5	1.6	110
EE737181/737261D	457.2	660.4	195.262	138.112	1.6	10.4	2650	5550	1	507	636	1.6	10.4	0.37	1.8	2.7	1.8	182
EE671801/672875D	457.2	730.148	254	177.8	1.6	9.7	3900	8350	1	527	699	1.6	9.7	0.39	1.7	2.6	1.7	368
M272749/M272710D	479.425	679.45	276.225	222.25	1.6	6.4	4760	12060	1	535	663	1.6	6.4	0.33	2	3	2	302
LM272249/LM272210D	482.6	615.95	184.15	146.05	1.6	6.4	2380	6900	1	522	604	1.6	6.4	0.37	1.8	2.7	1.8	126
EE243190/243251D	482.6	634.873	177.8	142.875	1.6	6.4	2290	6600	1	530	622	1.6	6.4	0.34	2	2.9	1.9	144
EE640191/640261D	488.671	660.4	206.375	158.75	1.6	6.4	2920	7550	1	535	643	1.6	6.4	0.31	2.2	3.3	2.1	185
EE640191/640262D	488.671	666.674	206.375	158.75	1.6	6.4	3100	7910	1	510	630	1.6	6.4	0.31	2.2	3.27	2.15	194
LM772748/LM772710D	488.95	634.873	180.975	136.525	1.6	6.4	2350	6350	1	532	623	1.6	6.4	0.47	1.4	2.1	1.4	134
EE640192/640261D	488.95	660.4	206.375	158.75	1.6	6.4	2920	7550	1	535	643	1.6	6.4	0.31	2.2	3.3	2.1	185
EE640192/243251D	488.95	666.674	206.375	158.75	1.6	6.4	3100	7910	1	510	630	1.6	6.4	0.31	2.2	3.27	2.15	194
EE243192/243251D	489.026	634.873	177.8	142.875	1.6	6.4	2610	6980	1	533	622	1.6	6.4	0.35	1.9	2.9	1.8	130
EE243196/243251D	498.475	634.873	177.8	142.875	1.6	6.4	2610	6980	1	538	622	1.6	6.4	0.35	1.9	2.9	1.8	125
M274149/M274110D	501.65	711.2	292.1	231.775	1.6	6.4	4810	12800	1	525	680	1.6	6.4	0.33	2.03	3.02	1.98	346
EE981992/982901	505.968	736.6	186.502	114.3	1.6	6.4	2780	6800	1	571	712	1.6	6.4	0.48	1.4	2.1	1.4	242
EE982003/982901	508	736.6	186.502	114.3	1.6	6.4	2780	6800	1	572	712	1.6	6.4	0.48	1.4	2.1	1.4	240
EE426200/426331D	508	838.2	304.8	222.25	3.2	9.7	6200	14100	1	595	804	3.2	9.7	0.48	1.4	2.1	1.4	630
EE982028/982901D	514.35	736.6	186.502	114.3	1.6	6.4	2520	5150	1	540	690	1.6	6.4	0.48	1.42	2.11	1.39	213
EE982051/982901D	520.7	736.6	186.502	114.3	1.6	6.4	2880	6370	1	579	712	1.6	6.4	0.48	1.4	2.1	1.4	210
EE522102/523088D	533.4	784.225	190.5	120.65	1.6	6.4	3000	7000	1	596	752	1.6	6.4	0.48	1.4	2.1	1.4	276
EE626210/626321D	533.4	812.8	269.875	187.325	3.2	9.7	4950	11300	1	607	783	3.2	9.7	0.44	1.5	2.3	1.5	465
LL475048/LL475011D	534.988	622.3	111.125	82.55	1.6	3.6	1000	3080	1	555	610	1.6	3.6	0.37	1.83	2.73	1.79	47.1
M276449/M276410DG2	536.575	761.873	311.15	247.65	1.6	6.4	5960	15200	1	576	726	1.6	6.4	0.33	2	3	2	430
EE542215/542291D	546.1	736.6	165.1	114.3	3.2	6.4	2190	5200	1	598	715	3.2	6.4	0.51	1.3	2	1.3	168

L476549/L476510D	549.275	692.15	174.625	136.525	3.2	6.4	2320	6950	1	579	666	3.2	6.4	0.38	1.79	2.67	1.75	135
EE542220/542291D	558.8	736.6	165.1	114.3	3.2	6.4	2050	5400	1	594	705	3.2	6.4	0.51	1.32	1.96	1.29	166
EE843220/843291D	558.8	736.6	187.328	138.112	1.6	6.4	3240	7880	1	591	708	1.6	6.4	0.35	1.9	2.9	1.8	190
LM377449/LM377410DC	558.8	736.6	225.425	177.8	1.6	6.4	4080	11020	1	591	708	1.6	6.4	0.35	1.9	2.9	1.8	150
EE843220/843292D	558.8	742.95	187.328	138.113	1.6	6.4	2960	8050	1	580	710	1.6	6.4	0.34	1.97	2.93	1.93	206
EE929225/929341D	565.15	863.6	317.5	228.6	3.2	8	6550	15200	1	638	832	3.2	8	0.34	2	2.9	1.9	613
M278749/M278710DAG2	571.5	812.8	333.375	263.525	1.6	6.4	6120	15200	1	615	774	1.6	6.4	0.33	2	3	2	520
EE542220/542291D	588.8	736.6	165.1	114.3	3.2	6.4	2190	5200	1	604	715	3.2	6.4	0.51	1.3	2	1.3	154
EE843220/843291D	588.8	736.6	187.328	138.112	1.6	6.4	3000	7800	1	606	718	1.6	6.4	0.34	2	2.9	1.9	195
LM377449/LM377410D	588.8	736.6	225.425	177.8	1.6	6.4	3950	11200	1	607	720	1.6	6.4	0.35	1.9	2.9	1.9	247
EE843220/843292D	588.8	742.95	187.328	138.112	1.6	6.4	3000	7800	1	606	721	1.6	6.4	0.34	2	2.9	1.9	203
649237/649311D	602.945	787.4	206.375	158.75	1.6	6.4	3820	10070	1	655	771	1.6	6.4	0.37	1.8	2.7	1.8	240
EE649237/649313D	602.945	793.75	206.375	158.75	1.6	6.4	3450	9600	1	655	774	1.6	6.4	0.37	1.8	2.7	1.8	253
EE649239/649311D	607.72	787.4	206.375	158.75	1.6	6.4	3450	9600	1	658	771	1.6	6.4	0.37	1.8	2.7	1.8	237
EE649239/649313D	607.72	793.75	206.375	158.75	1.6	6.4	3390	9940	1	630	755	1.6	6.4	0.37	1.82	2.7	1.78	254
LL579749/LL579710D	609.6	717.55	127	95.25	1.6	6.4	1530	4600	1	642	708	1.6	6.4	0.4	1.7	2.5	1.6	81.7
EE649240/649311D	609.6	787.4	206.375	158.75	1.6	6.4	3820	10070	1	659	771	1.6	6.4	0.37	1.8	2.7	1.8	232
EE649240/649313D	609.6	793.75	206.375	158.75	1.6	6.4	3450	9600	1	659	774	1.6	6.4	0.37	1.8	2.7	1.8	243
EE743240/743321D	609.6	812.8	190.5	146.05	3.2	6.4	3400	8360	1	664	785	3.2	6.4	0.33	2	3	2	250
L281148/L281110DA	660.4	812.8	203.2	158.75	3.2	6.4	3250	10300	1	693	789	3.2	6.4	0.37	1.8	2.69	1.76	199
EE749260/749335D	660.4	854.924	186.329	135.9	2.4	9.5	3120	8010	1	690	820	2.4	9.5	0.35	1.92	2.86	1.88	238
673KBE7951	673.1	793.75	133.35	98.426	1.6	6.4	1750	5850	1	710	781	1.6	6.4	0.36	1.9	2.8	1.8	108
EE655270/655346D	685.8	876.3	200.025	152.4	1.6	6.4	3510	10800	1	710	850	1.6	6.4	0.42	1.62	2.42	1.59	280
EE755280/755361D	711.2	914.4	190.5	139.7	1.6	6.4	3610	9170	1	767	891	1.6	6.4	0.37	1.8	2.7	1.8	265
EE755285/75361D	723.9	914.4	187.325	139.7	1.6	3.2	3020	8930	1	745	880	1.6	3.2	0.38	1.78	2.65	1.74	266
EE752295/752381D	749.3	965.2	187.325	133.35	1.6	6.4	3130	9590	1	775	920	1.6	6.4	0.4	1.68	2.5	1.64	320
LM283649/LM283610D	749.3	990.6	338	265	3.2	6.4	7850	23900	1	775	960	3.2	6.4	0.32	2.12	3.15	2.07	681
EE752300/752381D	762	965.2	187.325	133.35	1.6	6.4	3580	9800	1	815	943	1.6	6.4	0.4	1.7	2.5	1.6	290
EE752305/752381D	774.7	965.2	187.325	133.35	1.6	6.4	3580	9800	1	822	943	1.6	6.4	0.4	1.7	2.5	1.6	265
EE762320/762401D	812.8	1016	190.5	146.05	3.2	6.4	3580	10200	1	876	994	3.2	6.4	0.43	1.6	2.3	1.6	350
EE762320/762420XD	812.8	1066.8	190.5	146.05	3.2	6.4	3580	10200	1	867	1019	3.2	6.4	0.43	1.6	2.3	1.6	445
LL686947/LL686910D	914.4	1066.8	139.7	101.6	3.2	6.4	2460	8000	1	955	1048	3.2	6.4	0.4	1.7	2.5	1.6	190
940KBE1270-1	939.8	1270	547.2	317.5	3.2	12.7	9200	27550	1	976	1250	3.2	12.7	0.88	0.77	1.15	0.8	1540
LL687949/LL687910D	977.9	1130.3	139.7	101.6	3.2	6.4	2510	8750	1	1019	1112	3.2	6.4	0.43	1.6	2.3	1.5	210
LL889049/LL889010D	1270	1435.1	146.05	101.6	3.2	6.4	2800	11100	1	1315	1413	3.2	6.4	0.57	1.2	1.8	1.2	303
LL989349/LL989310D	1431.925	1584.325	130.175	79.375	3.2	6.4	2440	8850	1	1460	1560	3.2	6.4	0.62	1.09	1.62	1.06	259
EE299615/299711D	1562.1	1086.575	279.4	196.85	3.2	9.7	7210	28000	1	1632	1777	3.2	9.7	0.48	1.4	2.1	1.4	1045