



Ball Bearings C2013



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***K*keep *M*Moving *L*Long**



WARRANTY

Any bearing, which if properly selected, installed and used, shows defect upon **KML** laboratory analysis, due to faulty workmanship and/or material, shall be replaced free of charge provided such defect occurs within one year of delivery date.

Claims for labour or incidental damage shall not be allowed.

This warranty is in lieu of all warranties of merchantability, fitness for purpose, or all other warranties, expressed or implied.

KML shall not be liable for any special, indirect, or consequential damages. The remedies set forth herein are exclusive, and the liability of **KML** with respect to any contract or sale or anything done in connection therewith, in contract, in tort, under any warranty, or otherwise, shall not exceed the price of the bearing on which such liability is based.

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KML has always been adhering to the customer-centric philosophy since its establishment. With “Good quality, R&D, Global marketing, JIT service” as the core competitiveness, **KML** provided customers with one-stop service supported by effective management, strong technical force, advanced production facilities and constant quality control. The concept of the brand, **KML**, was incubated in Dortmund, Germany in 1980s. **KML** Company was officially established in 1981 in Hong Kong and gradually expanded into more than 70 countries and regions. **KML** now owns three subsidiaries in United States, Canada and China.

KML products are widely used in automobile, motorcycle, appliances, agricultural machinery, medicine, food and beverage processing, mining, energy, engineering, furniture industries etc.

To better meet customers’ diverse needs, **KML** strives to integrate optimal resources from bearing manufacturers in China, India and other parts of the world to form a highly-performed supply chain.

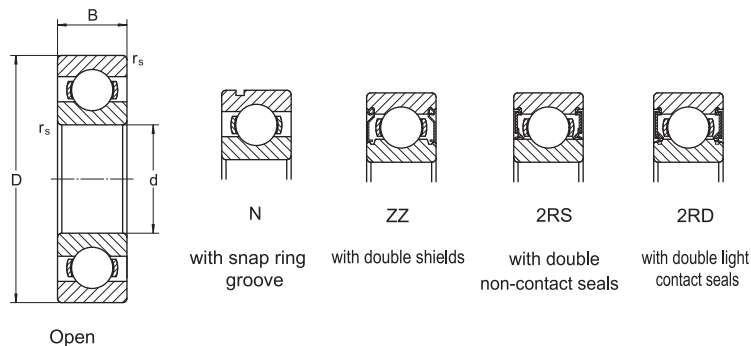
KML makes all efforts to help its global distributors and users gain maximum benefits and sustainable development by selling and using **KML** bearings, which makes **KML** a trusted brand.

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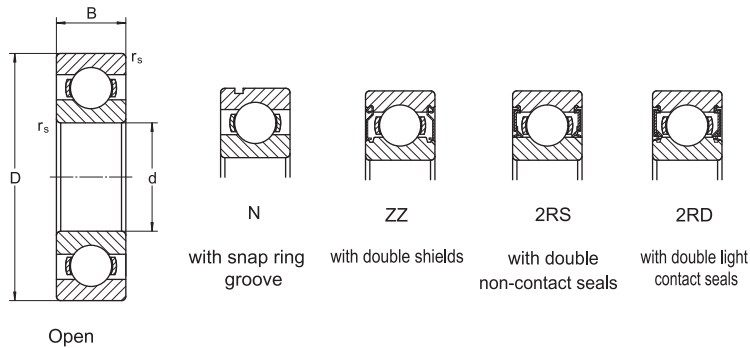
Metric Size Bearings
6700,6800,6900,6000,16000,6200,6300,6400 Series


KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg
	d	D	B	rs min	Dynamic Cr	Static Cor	Lubrication		
							Grease ZZ 2RS 2RD	Oil open	open type
6700 6800 6900 6000 6200 6300	10	15	3	0.1	1010	555	36000	42000	0.0015
		19	5	0.3	1830	925	32000	38000	0.005
		22	6	0.3	2700	1270	30000	36000	0.009
		26	8	0.3	4550	1960	29000	34000	0.019
		30	9	0.6	5100	2390	25000	30000	0.032
		35	11	0.6	8200	3500	23000	27000	0.053
6701 6801 6901 16001 6001 6201 6301	12	18	4	0.2	1070	655	32000	38000	0.003
		21	5	0.3	1920	1040	29000	35000	0.006
		24	6	0.3	2890	1460	27000	32000	0.011
		28	7	0.3	5100	2390	26000	30000	0.019
		28	8	0.3	5100	2390	26000	30000	0.021
		32	10	0.6	6100	2750	22000	26000	0.037
		37	12	1	9700	4200	20000	24000	0.060
6702 6802 6902 16002 6002 6202 6302	15	21	4	0.2	1150	790	29000	34000	0.0035
		24	5	0.3	2080	1260	26000	31000	0.007
		28	7	0.3	4100	2060	24000	28000	0.016
		32	8	0.3	5600	2840	22000	26000	0.025
		32	9	0.3	5600	2840	22000	26000	0.030
		35	H	0.6	7750	3600	19000	23000	0.045
		42	13	1	11400	5450	17000	21000	0.082
6703 6803 6903 16003 6003 6203 6303 6403	17	23	4	0.2	1200	865	26000	31000	0.004
		26	5	0.3	2810	1720	24000	28000	0.008
		30	7	0.3	4650	2580	22000	26000	0.018
		35	8	0.3	6800	3350	20000	24000	0.032
		35	10	0.3	6800	3350	20000	24000	0.039
		40	12	0.6	9600	4600	18000	21000	0.066
		47	14	1	13500	6550	16000	19000	0.115
		62	17	1.1	22700	10800	14000	16000	0.270
6704 6804 6904 16004 6004 6204 6304 6404	20	27	4	0.2	1790	1320	23000	28000	0.005
		32	7	0.3	4000	2470	21000	25000	0.019
		37	9	0.3	6400	3700	19000	23000	0.036
		42	8	0.3	7900	4500	18000	21000	0.051
		42	12	0.6	9400	5050	18000	21000	0.069
		47	14	1	12800	6650	16000	18000	0.106
		52	15	1.1	15900	7900	14000	17000	0.144
		72	19	1.1	28500	13000	12000	14000	0.400
60/22 62/22 63/22	22	44	12	0.6	9400	5050	17000	20000	0.074
		50	14	1	12900	6800	14000	17000	0.117
		56	16	1.1	18400	9250	13000	15000	0.176
6705 6805	25	32	4	0.2	1930	1550	19000	23000	0.006
		37	7	0.3	4300	2950	18000	21000	0.022

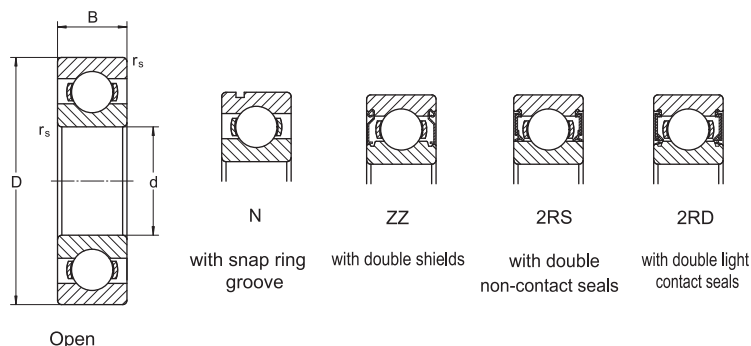


Metric Size Bearings

6700,6800,6900,6000,16000,6200,6300,6400 Series



KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg open type
							Lubrication		
	d	D	B	rs min	Dynamic Cr	Static Cor	Grease ZZ 2RS 2RD	Oil open	
6905	25	42	9	0,3	7050	4550	16000	19600	0.042
16005		47	8	0,3	8350	5100	15000	18000	0.06
6005		47	12	0,6	10100	5850	15000	18000	0.08
6205		52	15	1	14000	7850	13000	15000	0.128
6305		62	17	1.1	21200	10900	12000	14000	0.232
6405		80	21	1.5	34500	17500	10000	12000	0.53
60/28	28	52	12	0,6	12500	7400	14000	16000	0.098
62/28		58	16	1	17900	9750	12000	14000	0.171
63/28		68	18	1.1	26700	14000	11000	13000	0.284
6706	30	37	4	0,2	2050	1780	17000	20000	0.008
6806		42	7	0,3	4700	3650	15000	18000	0.026
6906		47	9	0,3	7250	5000	14000	17000	0.048
16006		55	9	0,3	11200	7350	13000	15000	0.091
6006		55	13	1	13200	8300	13000	15000	0.116
6206		62	16	1	19500	11300	11000	13000	0.199
6306		72	19	1.1	26700	15000	10000	12000	0.360
6406		90	23	1,5	43500	23900	8800	10000	0.735
60/32	32	58	13	1	15100	9150	12000	15000	0.129
62/32		65	17	1	20700	11600	11000	12000	0.226
63/32		75	20	1.1	29800	16900	9500	11000	0.382
6807	35	47	7	0,3	4900	4050	13000	16000	0.029
6907		55	10	0,6	11200	7450	12000	15000	0.074
16007		62	9	0,3	11700	8200	12000	14000	0.110
6007		62	14	1	16000	10300	12000	14000	0.155
6207		72	17	1.1	25700	15300	9800	11000	0.288
6307		80	21	1.5	33500	19100	8800	10000	0.457
6407		100	25	1.5	55000	31000	7800	9100	0.952
6808	40	52	7	0,3	5100	4400	12000	14000	0.033
6908		62	12	0,6	14600	10200	11000	13000	0.110
16008		68	9	0,3	12600	9650	10000	12000	0.125
6008		68	15	1	16800	11500	10000	12000	0.190
6208		80	18	1.1	29100	17800	8700	10000	0.366
6308		90	23	1.5	40500	24000	7800	9200	0.630
6408		110	27	2	63500	36500	7000	8200	1.230
6809	45	58	7	0,3	6400	5650	11000	12000	0.040
6909		68	12	0,6	15100	11200	9800	12000	0.128
16009		75	10	0,6	12900	10500	9200	11000	0.171
6009		75	16	1	21000	15100	9200	11000	0.237
6209		85	19	1,1	32500	20400	7800	9200	0.398
6309		100	25	1.5	53000	32000	7000	8200	0.814
6409		120	29	2	77000	45000	6300	7400	1.53

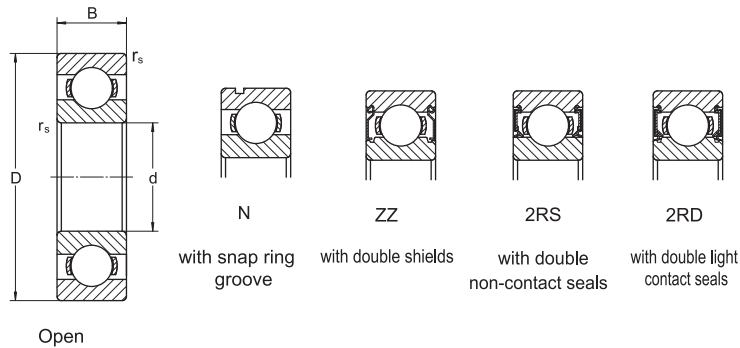
Metric Size Bearings
6700,6800,6900,6000,16000,6200,6300,6400 Series


KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg
	d	D	B	rs min	Dynamic Cr	Static Cor	Lubrication		
							Grease ZZ 2RS 2RD	Oil open	open type
6810 6910 16010 6010 6210 6310 6410	50	65	7	0.3	6600	6100	9600	11000	0.052
		72	12	0.6	15600	12200	8900	11000	0.132
		80	10	0.6	13200	11300	8400	9800	0.180
		80	16	1	21800	16600	8400	9800	0.261
		90	20	1.1	35000	23200	7100	8300	0.454
		110	27	2	62000	38500	6400	7500	1.070
		130	31	2.1	83000	49500	5700	6700	1.880
6811 6911 16011 6011 6211 6311	55	72	9	0.3	8800	8100	8700	10000	0.083
		80	13	1	16000	13300	8200	9600	0.180
		90	11	0.6	18600	15300	7700	9000	0.258
		90	18	1.1	28300	21200	7700	9000	0.388
		100	21	1.5	43500	29200	6400	7600	0.601
		120	29	2	71500	45000	5800	6800	1.370
6812 6912 16012 6012 6212 6312 6412	60	78	10	0.3	11500	10600	8000	9400	0.106
		85	13	1	16400	14300	7600	8900	0.193
		95	11	0.6	20000	17500	7000	8300	0.283
		95	18	1.1	29500	23200	7000	8300	0.414
		110	22	1.5	52500	36000	6000	7000	0.783
		130	31	2.1	82000	52000	5400	6300	1.730
		150	35	2.1	102000	64500	4800	5700	2.770
6813 6913 16013 6013 6213 6313	65	85	10	0.6	11600	11000	7400	8700	0.128
		90	13	1	17400	16100	7000	8200	0.206
		100	11	0.6	20500	18700	6500	7700	0.307
		100	18	1.1	30500	25200	6500	7700	0.421
		120	23	1.5	57500	40000	5500	6500	0.990
		140	33	2.1	92500	60000	4900	5800	2.080
6814 6914 16014 6014 6214 6314	70	90	10	0.6	12100	11900	6900	8100	0.137
		100	16	1	23700	21200	6500	7700	0.334
		110	13	0.6	24400	22600	6100	7100	0.441
		110	20	1.1	38000	31000	6100	7100	0.604
		125	24	1.5	62000	44000	5100	6000	1.070
		150	35	2.1	10400	68000	4600	5400	2.520
6815 6915 16015 6015 6215 6315	75	95	10	0.6	12500	12900	6400	7600	0.145
		105	16	1	24400	22600	6100	7200	0.353
		115	13	0.6	25000	24000	5700	6700	0.464
		115	20	1.1	39500	33500	5700	6700	0.649
		130	25	1.5	66000	49500	4800	5600	1.180
		160	37	2.1	113000	77000	4300	5000	3.020
6816 6916 16016	80	100	10	0.6	12700	13300	6000	7100	0.154
		110	16	1	24900	24000	5700	6700	0.373
		125	14	0.6	25400	25100	5300	6200	0.597

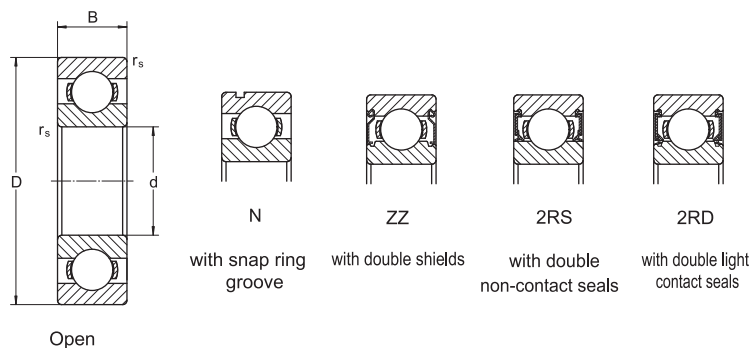


Metric Size Bearings

6700,6800,6900,6000,16000,6200,6300,6400 Series



KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg open type
							Lubrication		
	d	D	B	rs min	Dynamic Cr	Static Cor	Grease ZZ 2RS 2RD	Oil open	
6016	80	125	22	1.1	47500	40000	5300	6200	0.854
6216		140	26	2	72500	53000	4500	5300	1,400
6316		170	39	2.1	123000	86500	4000	4700	3.590
6817	85	110	13	i	18700	19000	5700	6700	0,270
6917		120	18	1.1	32000	29600	5400	6300	0.536
16017		130	14	0.6	25000	26200	5000	5900	0,626
6017		130	22	1.1	49500	43000	5000	5900	0.890
6217		150	28	2	83500	64000	4200	5000	1,790
6317		180	41	3	133000	97000	3800	4500	4,230
6818	90	115	13	1	19000	19700	5400	6300	0,285
6918		125	18	1.1	33000	31500	5100	6000	0.554
16018		140	16	1	33500	33500	4700	5600	0.848
6018		140	24	1.5	58000	49500	4700	5600	1,020
6218		160	30	2	96000	71500	4000	4700	2.150
6318		190	43	3	143000	107000	3600	4200	4.910
6819	95	120	13	1	19300	20500	5000	5900	0.300
6919		130	18	1.1	33500	33500	4800	5700	0,579
16019		145	16	1	34500	35000	4500	5300	0.885
6019		145	24	1.5	60500	54000	4500	5300	1.08
6219		170	32	2.1	109000	82000	3700	4400	2.62
6319		200	45	3	153000	119000	3300	3900	5.67
6820	100	125	13	1	19800	21200	4800	5600	0.31
6920		140	20	1.1	41000	39500	4500	5300	0,79
6020		150	24	1.5	60000	54000	4200	5000	1.15
6220		180	34	2.1	122000	93000	3500	4200	3,14
6320		215	47	3	173000	141000	3200	3700	7.00
6821	105	130	13	1	19800	22000	4600	5400	0.33
6921		145	20	1.1	42500	42000	4300	5100	0,816
6021		160	26	2	72500	65500	4000	4700	1,59
6221		190	36	2.1	133000	105000	3400	4000	3.70
6321		225	49	3	184000	153000	3000	3600	8.05
6822	no	140	16	1	28800	32000	4300	5100	0,515
6922		150	20	1.1	43500	44500	4100	4800	0,849
6022		170	28	2	82000	73000	3800	4500	1,96
6222		200	38	2.1	144000	117000	3200	3800	4.36
6322		240	50	3	205000	179000	2900	3400	9,54
6824	120	150	16	1	28900	33000	4000	4700	0.555
6924		165	22	1.1	53000	54000	3800	4400	1.15

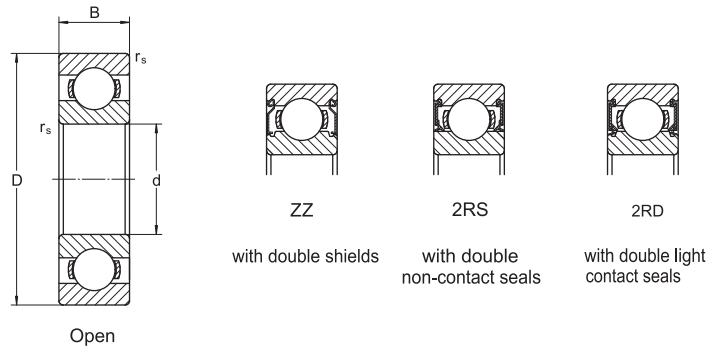
Metric Size Bearings
6700,6800,6900,6000,16000,6200,6300,6400 Series


KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg open type
							Lubrication		
	d	D	B	rs min	Dynamic Cr	Static Cor	Grease ZZ 2RS 2RD	Oil open	
6024	120	180	28	2	85000	79500	3500	4100	2.07
6224		215	40	2.1	155000	131000	2900	3400	5.15
6324		260	55	3	207000	185000	2600	3100	12.40
6826	130	165	18	1.1	37000	41000	3700	4300	0.80
6926		180	24	1.5	65000	67500	3500	4100	1.52
6026		200	33	2	106000	101000	3200	3800	3.16
6226		230	40	3	167000	146000	2700	3100	5.82
6326		280	58	4	229000	214000	2400	2800	15.3
6828	140	175	18	1.1	38500	44500	3400	4000	0.85
6928		190	24	1.5	66500	71500	3200	3800	1.62
6028		210	33	2	110000	109000	3000	3500	3.35
6228		250	42	3	166000	150000	2500	2900	7.57
6328		300	62	4	253000	246000	2200	2600	18.5
6830	150	190	20	1.1	47500	55000	3100	3700	1.16
6930		210	28	2	85000	90500	3000	3500	2.47
6030		225	35	2.1	126000	126000	2800	3200	4.08
6230		270	45	3	176000	168000	2300	2700	9.41
6330		320	65	4	274000	284000	2100	2400	22.0



Cartridge Type Bearings

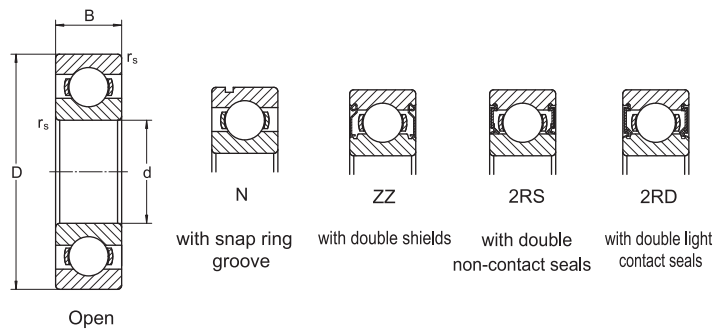
62000, 63000, 62200, 62300, 63200, 63300 Series



KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM	Mass Kg open type
	d	D	B	rs min	Dynamic Cr	Static Cor	Lubrication	
							Grease	
62000	10	26	10	0.3	4550	1960	26000	0,021
63000		26	12	0.3	4550	1960	26000	0,025
62200		30	14	0.6	5100	2390	25000	0,040
62300		35	17	0.6	5200	3500	23000	0,060
63001	12	28	12	0.3	5100	2390	23000	0,029
62201		32	14	0.6	6100	2750	22000	0,045
62301		37	17	1	9700	4200	20000	0,070
63002	15	32	13	0.3	5600	2840	20000	0,039
62202		35	14	0.6	7750	3600	15000	0,054
63202		35	15.9	0.6	7750	3600	15000	0,065
62302		42	17	1	11400	5450	15000	0,110
63003		35	14	0.3	6800	3350	15000	0,052
62203		40	16	0.6	9600	4600	12000	0,083
63203		40	17.5	0.6	9600	4600	12000	0,093
62303		47	19	1	13500	6550	12000	0,015
63004	20	42	16	0.6	9400	5050	12000	0,086
62204		47	18	1	12800	6650	10000	0,013
63204		47	20.6	1	12800	6650	10000	0,154
62304		52	21	1.1	15900	7900	10000	0,200
63304		52	22.2	1.1	15900	7900	10000	0,213
63005	25	47	16	0.6	10400	5850	10000	0,100
62205		52	18	1	14000	7850	8900	0,150
63205		52	20.6	1	14000	7850	8900	0,177
62305		62	24	1.1	21200	10900	8100	0,320
63305		62	25.4	1.1	21200	10900	8100	0,354
63006	30	55	19	1	13200	8300	8500	0,160
62206		62	20	1	19500	11300	8000	0,240
63206		62	23.8	1	19500	11300	7300	0,286
62306		72	27	1.1	26700	15000	7000	0,48
63306		72	30.2	1.1	26700	15000	6600	0,513
63007	35	62	20	1	16000	10300	7000	0,21
62207		72	23	1.1	25700	15300	6500	0,37
63207		72	27	1.1	25700	15300	6300	0,435
62307		80	31	1.5	33500	19100	6000	0,66
63307		80	34.9	1.5	33500	19100	6000	0,744
63008	40	68	21	1	16800	11500	6500	0,26
62208		80	23	1.1	29100	17800	6000	0,44
63208		80	30.2	1.1	29100	17800	5600	0,561
62308		90	33	1.5	40500	24000	5500	0,89
63308		90	36.5	1.5	40500	24000	5300	0,934

Inch Size Bearings

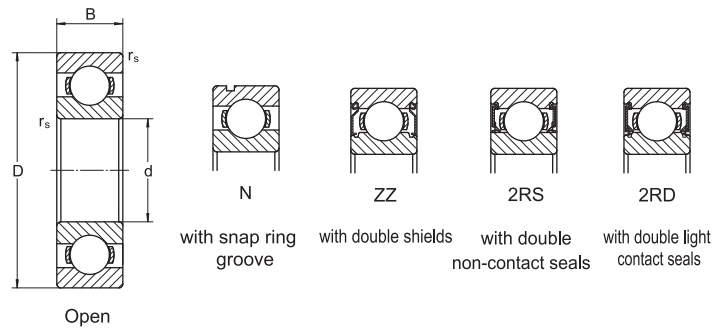
R Series



KML No.	FAG KOYO	Boundary dimensions										Mass g open type
		d		D		B				r _s min		
		in	mm	in	mm	Open		ZZ ,2RS ,2RD		in	mm	
						in	mm	in	mm			
R09	-	1/25	1.016	1/8	3.175	0.0469	1.19	-	-	0.004	0.10	-
RO		3/64	1.191	5/32	3.967	0.0626	1.59	0.0937	2.38	0.004	0.10	0.09
R1		0.055	1.397	3/16	4.762	0.0780	1.98	0.1094	2.78	0.004	0.10	0.17
R1-4		5/64	1.984	1/4	6.350	0.0937	2.38	0.1406	3.57	0.004	0.10	0.35
R133	-		2.381	3/16	4.763	0.0626	1.59	0.0937	2.38	0.004	0.10	0.12
RI-5			2.381	5/16	7.938	0.1094	2.78	0.1406	3.57	0.006	0.15	0.50
R144	-	1/8	3.175	1/4	6.350	0.0937	2.38	0.1094	2.78	0.004	0.10	0.27
R2-5			3.175	5/16	7.938	0.1094	2.78	0.1406	3.57	0.004	0.10	1.00
R2-6	"		3.175	3/8	9.525	0.1094	2.78	0.1406	3.57	0.006	0.15	1.00
R2	EEO		3.175	3/8	9.525	0.1563	3.97	0.1563	3.97	0.012	0.30	1.50
R2A	-		3.175	1/2	12.70	0.1720	4.37	0.1720	4.37	0.012	0.30	3.20
R155		5/32	3.967	5/16	7.938	0.1094	2.78	0.1252	3.18	0.004	0.10	0.50
R156	-	3/16	4.762	5/16	7.938	0.1094	2.78	0.1252	3.18	0.004	0.10	0.50
R166			4.762	3/8	9.525	0.1252	3.18	0.1252	3.18	0.004	0.10	1.00
R3	EE1		4.762	1/2	12.70	0.1563	3.97	0.1961	4.98	0.012	0.30	2.30
R3A	-		4.762	1/2	12.70	0.1961	4.98	0.1961	4.98	0.012	0.30	2.70
R168	-	1/4	6.350	3/8	9.525	0.1252	3.18	0.1252	3.18	0.004	0.10	0.50
R188	-		6.350	1/2	12.700	0.1252	3.18	0.1874	4.76	0.006	0.15	1.80
R4	EE2		6.350	5/8	15.875	0.1961	4.98	0.1961	4.98	0.012	0.30	4.50
R4A	-		6.350	3/4	19.050	0.2189	5.56	0.2811	7.14	0.016	0.40	7.70
R6	EE3	3/8	9.525	7/8	22.225	0.2189	5.56	0.2811	7.14	0.016	0.40	11
R8	EE4	1/2	12.700	1-1/8	28.575	0.2500	6.35	0.3126	7.94	0.016	0.40	18
RI0	EE5	5/8	15.875	1-3/8	34.925	0.2812	7.14	0.3437	8.73	0.031	0.80	37
R12	EE6	3/4	19.050	1-5/8	41.275	0.3126	7.94	0.4374	11.11	0.031	0.80	47
R14	EE8	7/8	22.225	1-7/8	47.625	0.3752	9.53	0.5000	12.7	0.031	0.80	71
R16	EE9	1	25.400	2	50.800	0.3752	9.53	0.5000	12.7	0.031	0.80	85
R18	EE10	1-1/8	28.575	2-1/8	53.975	0.3752	9.53	0.5000	12.7	0.031	0.80	90
R20	EE11	1-1/4	31.750	2-1/4	57.150	0.3752	9.53	0.5000	12.7	0.031	0.80	95
R22	EE12	1-3/8	34.925	2-1/2	63.500	0.4374	11.11	0.5626	14.29	0.031	0.80	106
R24	EE13	1-1/2	38.100	2-5/8	66.675	0.4374	11.11	0.5626	14.29	0.031	0.80	141



Inch Size Bearings 1600 Series



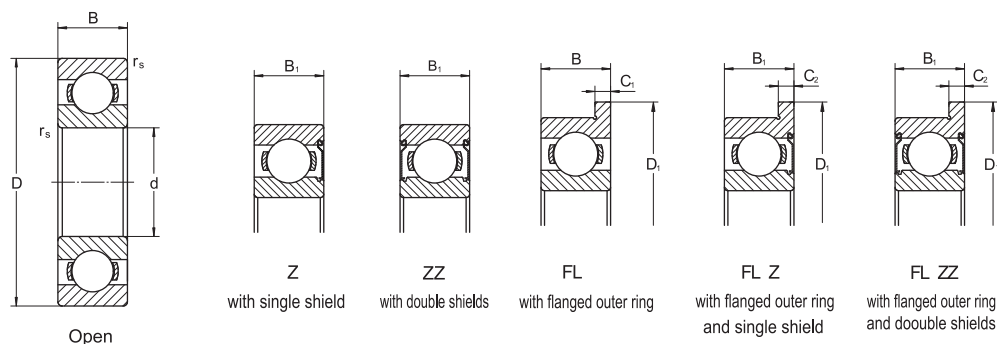
KML No.	Boundary dimensions								Basic load ratings N		Mass Kg open type
	d		D		B		rs min		Dynamic Cr	Static Cor	
	in	mm	in	mm	in	mm	in	mm			
1601	3/16	4.762	11/16	17.462	*1/4	6.350	0.012	0.3	1510	7200	0.007
1602	1/4	6.350	11/16	17.462	*1/4	6.350	0.012	0.3	1510	7200	0.006
1603	5/16	7.938	7/8	22.225	**9/32	7.144	0.012	0.3	2540	1340	0.010
1604	3/8	9.525	7/8	22.225	**9/32	7.144	0.015	0.4	2540	1340	0.015
1605	5/16	7.938	29/32	23.019	5/16	7.938	0.012	0.3	2540	1340	0.012
1606	3/8	9.525	29/32	23.019	5/16	7.938	0.015	0.4	2540	1340	0.014
1607	7/16	11.112	29/32	23.019	5/16	7.938	0.015	0.4	3550	1930	0.016
1614	3/8	9.525	1-1/8	28.575	3/8	9.525	0.025	0.6	3920	2240	0.035
1615	7/16	11.112	1-1/8	28.575	3/8	9.525	0.025	0.6	3920	2240	0.032
1616	1/2	12.700	1-1/8	28.575	3/8	9.525	0.025	0.6	3920	2240	0.030
1620	7/16	11.112	1-3/8	34.925	7/16	11.112	0.025	0.6	5880	3470	0.050
K11621	1/2	12.700	1-3/8	34.925	7/16	11.112	0.025	0.6	5880	3470	0.048
1622	9/16	14.288	1-3/8	34.925	7/16	11.112	0.025	0.6	5880	3470	0.046
1623	5/8	15.875	1-3/8	34.925	7/16	11.112	0.025	0.6	5880	3470	0.040
1628	5/8	15.875	1-5/8	41.275	1/2	12.700	0.025	0.6	7230	4440	0.072
K11630	3/4	19.050	1-5/8	41.275	1/2	12.700	0.025	0.6	7230	4440	0.065
1633	5/8	15.875	1-3/4	44.450	1/2	12.700	0.025	0.6	7230	4440	0.090
K11635	3/4	19.050	1-3/4	44.450	1/2	12.700	0.025	0.6	7230	4440	0.085
1638	3/4	19.050	2	50.800	9/16	14.288	0.035	0.9	10780	6940	0.120
1640	7/8	22.225	2	50.800	9/16	14.288	0.035	0.9	10780	6940	
K11641	1	25.400	2	50.800	9/16	14.288	0.035	0.9	10780	6940	0.100
1652	1-1/8	28.575	2-1/2	63.500	5/8	15.875	0.035	0.9	12800	8400	0.210
1654	1-1/4	31.750	2-1/2	63.500	5/8	15.875	0.035	0.9	12800	8400	0.190
1657	1-1/4	31.750	2-9/16	65.088	11/16	17.462	0.035	0.9	14970	10000	0.220
1658	1-5/16	33.338	2-9/16	65.088	11/16	17.462	0.035	0.9	14970	10000	0.200

•Width sealed = 5/16 in

“Width sealed = 11/32 in

Miniature Ball Bearings

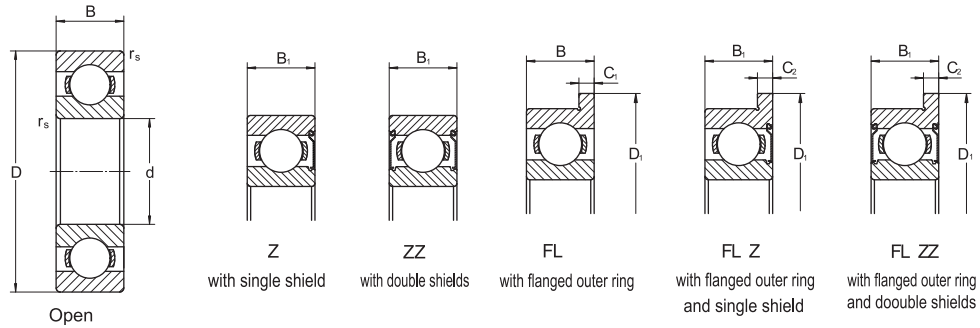
68, 69, 60, 62, 63 Series



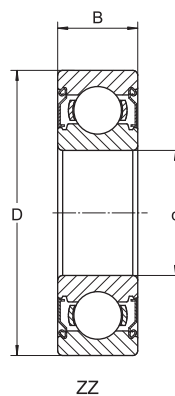
KML No.	Boundary dimensions mm								Basic load ratings N		Limiting speeds RPM		Mass g Open type
	d	D	B	B1	D1	C1	C2	rsmin	Dynamic Cr	Static Cor	Lubrication		
											Shielded	Open	
681		3	1	1.5	3.8	0.3	0.45	0.05	80	22	120000	140000	0.05
691		4	1.6	2.3	5	0.5	0.6	0.1	157	43	96000	110000	0.11
68/1.5	1.5	4	1.2	2	5	0.4	0.6	0.05	102	29	88000	100000	0.07
69/1.5		5	2	2.6	6.5	0.6	0.8	0.15	237	68	79000	93000	0.18
60/1.5		6	2.5	3	7.5	0.6	0.8	0.15	274	86	71000	84000	0.35
672	2	4	1.2	2	-	-	-	0.05	104	37	83000	98000	0.06
682		5	1.5	2.3	6.1	0.5	0.6	0.08	171	51	74000	87000	0.13
692		6	2.3	3.0	7.5	0.6	0.8	0.15	279	89	67000	74000	0.31
602		7	2.8	3.5	8.5	0.7	0.9	0.15	380	125	62000	73000	0.54
67/2.5	2.5	5	1.5	2.3	-	-	-	0.08	153	59	70000	82000	0.11
68/2.5		6	1.8	2.6	7.1	0.5	0.8	0.08	209	73	65000	76000	0.22
69/2.5		7	2.5	3.5	8.5	0.7	0.9	0.15	284	96	59000	70000	0.43
60/2.5		8	2.8	4	9.5	0.7	0.9	0.15	550	174	56000	66000	0.72
673	3	6	2	2.5	7.2	0.6	0.6	0.08	242	94	60000	71000	0.20
683		7	2	3	8.1	0.5	0.8	0.1	390	130	58000	68000	0.33
693		8	3	4	9.5	0.7	0.9	0.15	560	180	54000	63000	0.61
603		9	3	5	10.5	0.7	1	0.15	635	219	50000	59000	0.92
623		10	4	4	11.5	1	1	0.15	640	224	50000	58000	1.6
633		13	5	5	-	-	-	0.2	1300	490	44000	54000	3.0
674		7	2	2.5	8.2	0.6	0.6	0.08	269	117	54000	63000	0.28
684		9	2.5	4	10.3	0.6	1	0.1	640	224	48000	57000	0.67
694		11	4	4	12.5	1	1	0.15	715	276	45000	52000	1.8
604		12	4	4	13.5	1	1	0.2	970	360	43000	51000	2.1
624		13	5	5	15	1	1	0.2	1310	490	42000	49000	3.2
634		16	5	5	-	-	-	0.3	1760	680	37000	44000	5.1
675		8	2	2.5	9.2	0.6	0.6	0.08	292	142	49000	57000	0.32
685		11	3	5	12.5	0.8	1	0.15	715	282	43000	51000	1.1
695		13	4	4	15	1	1	0.2	1080	430	40000	47000	2.4
605		14	5	5	16	1	1	0.2	1330	505	39000	46000	3.5
625		16	5	5	18	1	1	0.3	1760	680	37000	44000	4.8
635		19	6	6	-	-	-	0.3	2340	885	34000	40000	8
676	6	10	2.5	3	11.2	0.6	0.6	0.1	530	240	43000	51000	0.65
686		13	3.5	5	15	1	1.1	0.15	1080	440	39000	46000	1.9
696		15	5	5	17	1.2	1.1	0.2	1350	530	37000	44000	3.8
606		17	6	6	19	1.2	1.2	0.3	2190	865	35000	42000	6
626		19	6	6	22	1.5	1.5	0.3	2340	885	34000	40000	8.1
636		22	7	7	-	-	-	0.3	3300	1350	23000	31000	13
677	7	11	2.5	3	12.2	0.6	0.6	0.1	555	269	40000	47000	0.67
687		14	3.5	5	16	1	1.1	0.15	1170	510	37000	44000	2.1
697		17	5	5	19	1.2	1.2	0.3	1610	715	35000	41000	5.2
607		19	6	6	-	-	-	0.3	2240	910	34000	40000	8
627		22	7	7	-	-	-	0.3	3350	1400	32000	37000	13



Miniature Ball Bearing 68, 69, 60, 62, 63 Series



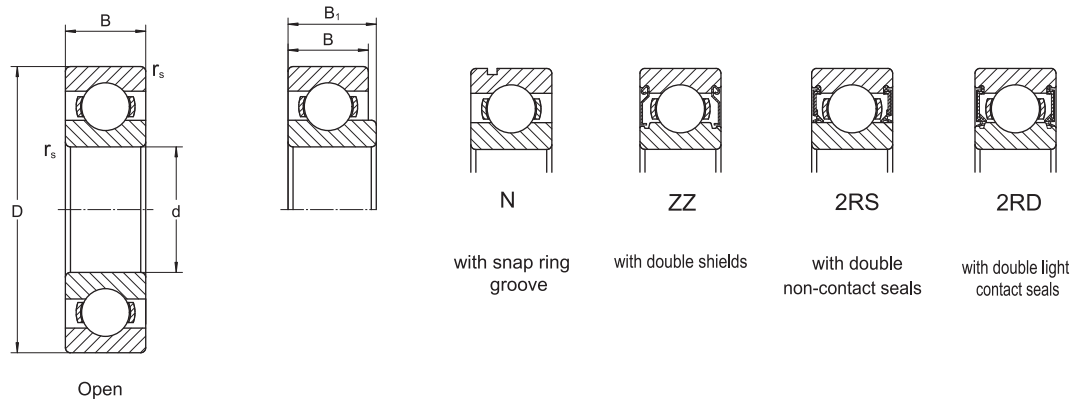
KML No.	Boundary dimensions mm								Basic load ratings N		Limiting speeds RPM		Mass g
	d	D	B	B1	D1	C1	C2	rsmin	Dynamic Cr	Static Cor	Lubrication		
											Shielded	open	
678	8	12	2.5	3.5	13.6	0.6	0.8	0.1	575	298	38000	45000	0.75
688		16	4	5	18	1	1.1	0.2	1260	585	35000	41000	3.1
698		19	6	6	22	1.5	1.5	0.3	1990	865	33000	39000	7.3
608		22	7	7	25	1.5	1.5	0.3	3350	1400	32000	37000	12
628		24	8	8	-	-	-	0.3	4000	1590	31000	36000	17
638		28	9	9	-	-	-	0.3	4550	1950	23000	26000	29
679	9	14	3	4.5	-	-	-	0.1	920	465	36000	42000	1.4
689		17	4	5	10	1	1.1	0.2	1720	820	33000	39000	3.2
699		20	6	6	-	-	-	0.3	2480	1090	32000	38000	8.2
609		24	7	7	-	-	-	0.3	3400	1450	31000	36000	14
629		26	8	8	-	-	-	0.3	4550	1960	30000	35000	20
639		30	10	10	-	-	-	0.6	6000	2650	24000	29000	35

Miniature Ball Bearing
MR Series


KML No-	NMB No.	Boundary dimensions mm			Mass g
		d	D	B	
MR5ZZ	L-520ZZW52	2	5	2.5	0.22
MR6ZZ	-		6	2.5	0.32
MR7ZZ	-		7	3	0.44
MR63ZZ	L-630ZZ	3	6	2.5	0.2
MR83ZZ	-		8	3	0.61
MR93ZZ	-		9	4	0.71
MR74ZZ	L-740ZZ	4	7	2.5	0.28
MR84ZZ	L-840ZZ		8	3	0.38
MR104ZZ	L-1040ZZ		10	4	1
MR85ZZ	L-850ZZ		8	2.5	0.32
MR95ZZ	L-950ZZ		9	3	0.55
MR105ZZ	L-1050ZZ		10	4	0.88
MR11 5ZZ	-		11	4	1.8
MR106ZZ	L-1060ZZ	6	10	3	0.65
MR126ZZ	L-1260ZZ		12	4	1.3
MR117ZZ	L-1170ZZ		11	3	0.67
MR137ZZ	L-1370ZZ		13	4	1.4
MR128ZZ	-		12	3.5	0.75
MR148ZZ	L-1480ZZ		14	4	1.8
MR149ZZ	-	9	14	4.5	-



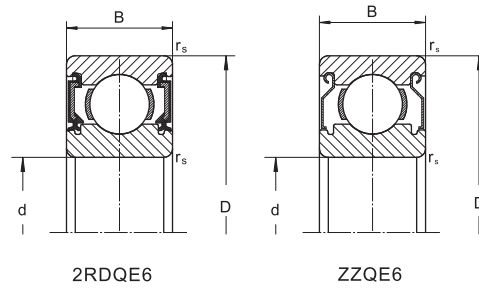
Special Dimension Bearings



KML No.	Boundary dimensions mm				Remark	Mass Kg open type
	d	D	B	B1		
6201-3/8	9.525	32	10			0.040
6201-1/2	12.7	32	10			0.036
6202-1/2	12.7	35	11			0.046
6202-5/8	15.875	35	11			0.044
6203-5/8	15.875	40	12			
6203-3/4	19.05	40	12			0.063
6204-3/4	19.05	47	14			0.107
6204-7/8	22.225	47	14			
6205-1	25.4	52	15			0.127
W203-PP-N	17	40	17.463		With double seals	0.09
W205ZZ	25	52	20.64		With double shield	
630702	16	42	13			
411802	36.512	68	15		With double seals	
420205	25	52	12			
43x63x9 TN	43	63	9			
N6008RS	40	68	13.5	15		
N6008-2RS	40	68	13			
N6908RS	40	62	10.5	12		
N6308NR	40	90	20		With snap groove and snap ring	0.57
N6309NR	45	100	21		With snap groove and snap ring	
N6010-2RS	50	80	14			
WIR 210-31	49.212	90	20	49.212		0.75
WIR 211 -33	52.388	100	21	55.562		1.19
WIR 212-39	61.912	no	22	61.912		1.25
ST627A	55.562	100	33.337	55.562		1.12
35KD4	5.006	14.678	6		With one shield	0.0035
S3 KL 2	9.53	22.222	8	9.8	With one shield	0.018
99502 H	15.875	34.925	11.1		With two seals	0.044
499502 H	15.875	34.925	11.1		With two seals.with snap groove	0.044
W 9104-2RSNR	19.05	42	17.462			0.1
6204ZV	20	47	12	15		0.11
6204ZZV	20	47	12	15		0.11
6005ZV	25	47	12	15		0.09
8007RS	7	24	8	9.804		0.025
8500RS	10	30	9	12.192		0.04
6207-ZDD85	35	85	17		Increased O.D.	0.48
21850	35	72	19	33.4	Spherical O.D.	0.38
697609-2RS	45	75	16	19		
SC04A90N	22	62	15		Open,with snap ring groove	

Premium Grade Ball Bearing

1. Low noise ball bearings 100% tested for commercial electric motors applications.
2. Longer service life by lubricated with high Temperature grease.
3. Better sealing performance by light contact triple-lips Seals And shields.
4. Simple and maintenance free arrangement.
5. Consistency in performance.



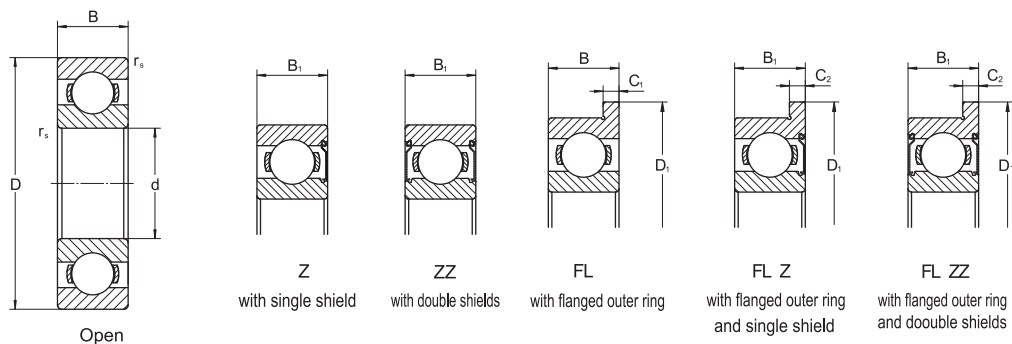
KML No.		Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM	Mass Kg open type
With seals	With shields	d	D	B	rsmin	Dynamic Cr	Static Cor	Lubrication	
								ZZ2RD	
608-2RDQE6	608-ZZQE6	8	22	7	0.3	3350	1400	32000	0.012
6000-2RDQE6	6000-ZZQE6	10	26	8	0.3	4450	1960	29000	0.019
6200-2RDQE6	6200-ZZQE6		30	9	0.6	5100	2390	25000	0.032
6300-2RDQE6	6300-ZZQE6		35	11	0.6	5200	3500	23000	0.058
6001-2RDQE6	6001-ZZQE6	12	28	8	0.3	5100	2390	26000	0.021
6201-2RDQE6	6201-ZZQE6		32	10	0.6	6100	2750	22000	0.037
6301-2RDQE6	6301-ZZQE6		37	12	1	9700	4200	20000	0.06
6002-2RDQE6	6002-ZZQE6	15	32	9	0.3	5600	2840	22000	0.030
6202-2RDQE6	6202-ZZQE6		35	11	0.6	7750	3600	19000	0.045
6302-2RDQE6	6302-ZZQE6		42	13	1	11400	54500	17000	0.082
6003-2RDQE6	6003-ZZQE6		35	10	0.3	6800	3350	20000	0.039
6203-2RDQE6	6203-ZZQE6		40	12	0.6	9600	4600	18000	0.068
6303-2RDQE6	6303-ZZQE6		47	14	1	13500	6550	16000	0.115
6403-2RDQE6	6403-ZZQE6		62	17	1.1	22700	10800	14000	0.270
6004-2RDQE6	6004-ZZQE6	20	42	12	0.6	9400	5050	18000	0.069
6204-2RDQE6	6204-ZZQE6		47	14	1	12800	6650	16000	0.106
6304-2RDQE6	6304-ZZQE6		52	15	1.1	15900	7900	14000	0.144
6005-2RDQE6	6005-ZZQE6	25	47	12	0.6	10400	5850	15000	0.08
6205-2RDQE6	6205-ZZQE6		52	15	1	14000	7850	13000	0.128
6305-2RDQE6	6305-ZZQE6		62	17	1.1	21200	10900	12000	0.232
6006-2RDQE6	6006-ZZQE6	30	55	13	1	13200	8300	13000	0.116
6206-2RDQE6	6206-ZZQE6		62	16	1	19500	11300	11000	0.200
6306-2RDQE6	6306-ZZQE6		72	19	1.1	26700	15000	10000	0.360
6007-2RDQE6	6007-ZZQE6	35	62	14	1	16000	10300	12000	0.155
6207-2RDQE6	6207-ZZQE6		72	17	1.1	25700	15300	9800	0.290
6307-2RDQE6	6307-ZZQE6		80	21	1.5	33500	19100	8800	0.460
6008-2RDQE6	6008-ZZQE6	40	68	15	1	16800	11500	10000	0.190
6208-2RDQE6	6208-ZZQE6		80	18	1.1	29100	17800	8700	0.370
6308-2RDQE6	6308-ZZQE6		90	23	1.5	40500	24000	7800	0.630
6009-2RDQE6	6009-ZZQE6	45	75	16	1	21000	15100	9200	0.240
6209-2RDQE6	6209-ZZQE6		85	19	1.1	32500	20400	7800	0.400
6309-2RDQE6	6309-ZZQE6		100	25	1.5	53000	32000	7000	0.810
6010-2RDQE6	6010-ZZQE6	50	80	16	1	21800	16600	8400	0.260
6210-2RDQE6	6210-ZZQE6		90	20	1.1	35000	23200	7100	0.45
6310-2RDQE6	6310-ZZQE6		110	27	2	62000	38500	6400	1.07



Miniature Ball Bearings

SS68, SS69, SS60, SS62 Series

Races and balls material AISI 440C

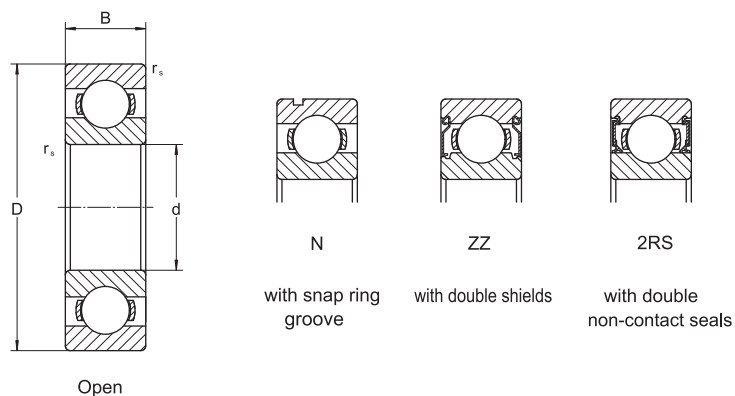


KML No-	Boundary dimensions mm								Limiting speeds RPM		Mass g open type
	d	D	B	Bi	Di	CI	C2	rs min	Lubrication		
									Grease 2RS.ZZ	Oil	
SS682		5	1.5	2.3	6.1	0.5	0.6	0.08	85000	100000	0.13
SS692		6	2.3	3.0	7.5	0.6	0.8	0.15	75000	90000	0.31
SS683	3	7	2	3	8.1	0.5	0.8	0.1	63000	75000	0.33
SS693		8	3	4	9.5	0.7	0.9	0.15	60000	67000	0.61
SS603		9	3	5	10.5	0.7	1	0.15	56000	67000	0.92
SS623		10	4	4	11.5	1	1	0.15	50000	60000	1.6
SS684	4	9	2.5	4	10.3	0.6	1	0.1	53000	63000	0.67
SS694		11	4	4	12.5	1	1	0.15	48000	56000	1.8
SS604		12	4	4	13.5	1	1	0.2	48000	56000	2.1
SS624		13	5	5	15	1	1	0.2	40000	48000	3.2
SS634		16	5	5	18	1	1	0.3	36000	43000	5.1
SS685	5	11	3	5	12.5	0.8	1	0.15	45000	53000	1.1
SS695		13	4	4	15	1	1	0.2	43000	50000	2.4
SS605		14	5	5	16	1	1	0.2	40000	50000	3.5
SS625		16	5	5	18	1	1	0.3	36000	43000	4.8
SS635		19	6	6	22	1.5	1.5	0.3	32000	40000	8
SS686		13	3.5	5	15	1	1.1	0.15	40000	50000	1.9
SS696		15	5	5	17	1.2	1.2	0.2	40000	45000	3.8
SS606		17	6	6	19	1.2	1.2	0.3	38000	45000	6
SS626		19	6	6	22	1.5	1.5	0.3	32000	40000	8.1
SS687	7	14	3.5	5	16	1	1.1	0.15	40000	45000	2.1
SS697		17	5	5	19	1.2	1.2	0.2	36000	43000	5.2
SS607		19	6	6	22	1.5	1.5	0.3	36000	43000	8
SS627		22	7	7	25	1.5	1.5	0.3	30000	36000	13
SS688	8	16	4	5	18	1	1.1	0.15	36000	43000	3.1
SS698		19	6	6	22	1.5	1.5	0.3	36000	43000	7.3
SS608		22	7	7	25	1.5	1.5	0.3	34000	40000	12
SS689		17	4	5	19	1	1.1	0.2	36000	43000	3.2
SS699		20	6	6	23	1.5	1.5	0.3	34000	40000	8.2

Miniature Ball Bearings

SSR Series

Races and balls material AISI 440C



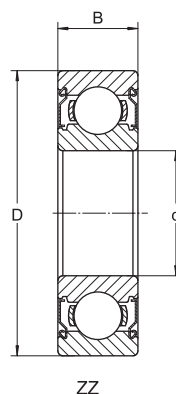
KML No.	Boundary dimensions										Mass g open type
	d		D		B				rs min		
	In.	mm	In.	mm	Open		Shielded, seals		In.	mm	
					In.	mm	In.	mm			
SSR1-5	3/32	2.381	5/16	7.938	0.1094	2.78	0.1406	3.57	0.006	0.15	0.50
SSR144	1/8	3.175	1/4	6.350	0.0937	2.38	0.0937	2.38	0.004	0.10	0.27
SSR2-5		3.175	5/16	7.938	0.1094	2.78	0.1406	3.57	0.004	0.10	1.00
SSR2-6		3.175	3/8	9.525	0.1094	2.78	0.1406	3.57	0.006	0.15	1.00
SSR2		3.175	3/8	9.525	0.1563	3.97	0.1543	3.92	0.012	0.30	1.50
SSR2A		3.175	1/2	12.700	0.1720	4.37	0.1720	4.37	0.012	0.30	3.20
SSR155	5/32	3.969	5/16	7.938	0.1094	2.78	0.1252	3.18	0.004	0.10	0.5
SSR156	3/16	4.763	5/16	7.938	0.1094	2.78	0.1252	3.18	0.004	0.10	0.5
SSR166		4.763	3/8	9.525	0.1252	3.18	0.1252	3.18	0.004	0.10	1
SSR3		4.763	1/2	12.700	0.1563	3.97	0.1961	4.98	0.012	0.30	2.3
SSR3A		4.763	1/2	12.700	0.1961	4.98	0.1961	4.98	0.012	0.30	2.7
SSR168	1/4	6.350	3/8	9.525	0.1252	3.18	0.1252	3.18	0.004	0.10	0.5
SSR188		6.350	1/2	12.700	0.1252	3.18	0.1874	4.76	0.006	0.15	1.8
SSR4		6.350	5/8	15.875	0.1961	4.98	0.1961	4.98	0.012	0.30	4.5
SSR4A		6.350	3/4	19.050	0.2189	5.56	0.2811	7.14	0.016	0.40	7.7
SSR6	3/8	9.525	7/8	22.225	0.2189	5.56	0.2811	7.14	0.016	0.40	11
SSR8	1/2	12.700	1-1/8	28.575	0.2500	6.35	0.3126	7.94	0.016	0.40	18
SSR1458	5/8	15.875	7/8	22.225	0.1563	3.97	0.1563	3.97	0.01	0.25	-
SSR10	5/8	15.875	1-3/8	34.925	0.2181	5.54	0.3437	8.73	0.031	0.8	37
SSR12	3/4	19.05	1-5/8	41.275	0.3126	7.94	0.4374	11.11	0.031	0.8	47
SSR14	7/8	22.225	1-7/8	47.625	0.3752	9.53	0.5	12.7	0.031	0.8	71
SSR16	1	25.4	2	50.8	0.3752	9.53	0.5	12.7	0.031	0.8	85
SSR18	1-1/8	28.575	2-1/8	53.975	0.3752	9.53	0.5	12.7	0.031	0.8	90
SSR20	1-1/4	31.75	2-1/4	57.15	0.3752	9.53	0.5	12.7	0.031	0.8	95
SSR22	1-3/8	34.925	2-1/2	63.5	0.4374	11.11	0.5626	14.29	0.031	0.8	106
SSR24	1-1/2	38.1	2-5/8	66.675	0.4374	11.11	0.5626	14.29	0.031	0.8	141



Miniature Ball Bearings

SSMR Series

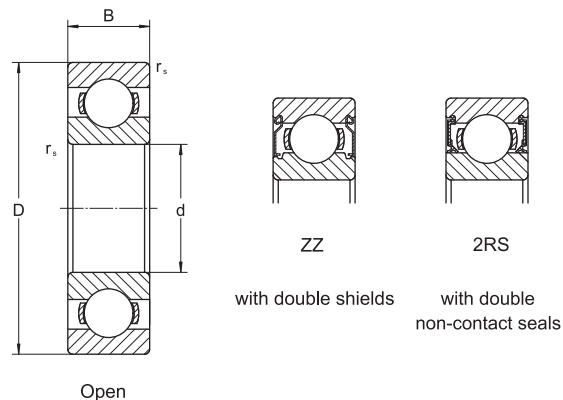
Races and balls material AISI 440C



KML No.	Boundary dimensions mm				Limiting speeds RPM	Mass g
	d	D	B	r _{min}	Lubrication	
					Grease ZZ	
SSMR52ZZ	2	5	2.5	0.1	85000	0.22
SSMR74ZZ	4	7	2.5	0.1	60000	0.28
SSMR84ZZ		8	3	0.1	56000	0.38
SSMR104ZZ		10	4	0.15	48000	1.00
SSMR85ZZ	5	8	2.5	0.1	53000	0.32
SSMR95ZZ		9	3	0.1	50000	0.55
SSMR105ZZ		10	4	0.1	50000	0.88
SSMR106ZZ		10	3	0.1	45000	0.65
3SMR126ZZ		12	4	0.15	43000	1.30
SSMR117ZZ		11	3	0.1	43000	0.67
3SMR137ZZ		13	4	0.15	40000	1.40
SSMR128ZZ		12	3.5	0.1	40000	0.75
SSMR148 ZZ		14	4	0.15	38000	1.80

Metric Size Ball Bearings
SS6800, SS6900, SS6000,
SS6200, SS6300 Series

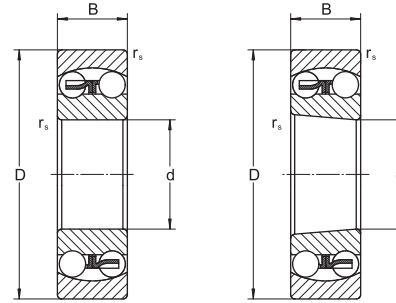
Races and balls material AISI 440C



KML No.	Boundary dimensions mm				Limiting speeds RPM		Mass g open type
	d	D	B	r,min	Lubrication		
					Grease 2RS, ZZ	Oil Open	
SS6000	10	26	8	0.3	30000	36000	19
SS6200		30	9	0.6	24000	30000	32
SS6300		35	11	0.6	20000	26000	53
SS6800		19	5	0.3	37000	43000	5
SS6900		22	6	0.3	34000	41000	10
SS6001	12	28	8	0.3	26000	32000	22
SS6201		32	10	0.6	22000	28000	37
SS6301		37	12	1	19000	24000	60
SS6801		21	5	0.3	33000	39000	6
SS6901		24	6	0.3	31000	36000	11
SS6002	15	32	9	0.3	22000	28000	30
SS6202		35	11	0.6	19000	24000	45
SS6302		42	13	1	17000	20000	82
SS6802		24	5	0.3	28000	33000	7
SS6902		28	7	0.3	26000	30000	17
SS6003	17	35	10	0.3	19000	24000	39
SS6203		40	12	0.6	17000	20000	65
SS6303		47	14	1	19000	18000	120
SS6803		26	5	0.3	26000	30000	8
SS6903		30	7	0.3	23000	28000	18
SS6004	20	42	12	0.6	17000	20000	69
SS6204		47	14	1	15000	18000	110
SS6304		52	15	1.1	13000	16000	140
SS6804		32	7	0.3	21000	25000	18
SS6904		37	9	0.3	19000	23000	36
SS6005	25	47	12	0.6	15000	18000	80
SS6205		52	15	1	12000	15000	130
SS6305		62	17	1.1	11000	14000	230
SS6805		37	7	0.3	18000	21000	22
SS6905		42	9	0.3	16000	19000	41
SS6006	30	55	13	1	12000	15000	120
SS6206		62	16	1	10000	13000	200
SS6306		72	19	1.1	9000	11000	350
SS6806		42	7	0.3	15000	18000	26
SS6906		47	9	0.3	14000	17000	45
SS6007	35	62	14	1	10000	13000	160
SS6207		72	17	1.1	9000	11000	290
SS6807		47	7	0.3	13000	16000	30
SS6907		55	10	0.6	12000	14000	73
SS6008	40	68	15	1	9500	12000	190
SS6208		80	18	1.1	8500	10000	370
SS6308		90	23	1.5	7500	9000	630
SS6808		52	7	0.3	12000	14000	33
SS6908		62	12	0.6	11000	13000	112



**1200, 1300, 2200, 2300
1200K, 1300K, 2200K, 2300K Series**

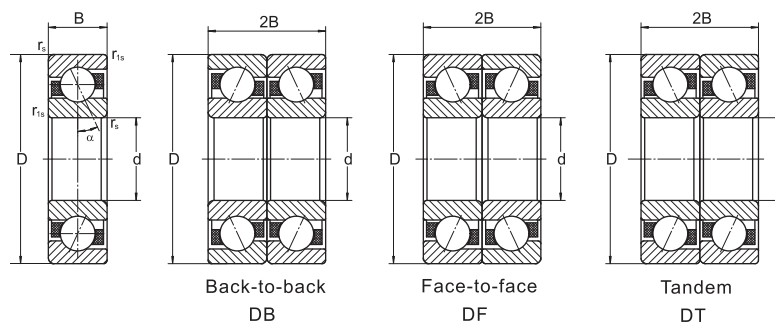


Cylindrical bore

Tapered bore
Taper 1: 12

KML No.		Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg	
Cylindrical bore	Tapered bore	d	D	B	r _{min}	Dynamic C _r	Static C _{or}	Lubrication		Cylindrical bore	Tapered bore
								Grease	Oil		
1204	1204K	20	47	14	i	9900	2610	13000	15000	0.116	0.114
2204	2204K		47	18	i	12600	3300	12000	14000	0.140	0.137
1304	1304K		52	15	l	12400	3350	11000	13000	0.160	0.158
2304	2304K		52	21	i	18100	4070	10000	12000	0.206	0.201
1205	1205K	25	52	15	l	12100	3300	11000	13000	0.138	0.135
2205	2205K		52	18	i	12300	3450	10000	12000	0.157	0.153
1305	1305K		62	17	l.i	18000	5000	9100	11000	0.255	0.251
2305	2305K		62	24	l.i	24400	6600	8500	10000	0.334	0.326
1206	1206K	30	62	16	l	15600	4650	9200	11000	0.217	0.213
2206	2206K		62	20	l	15200	4500	8600	10000	0.256	0.250
1306	1306K		72	19	l.i	21300	6300	7700	9100	0.383	0.377
2306	2306K		72	27	l.i	31500	8750	7200	8500	0.496	0.485
1207	1207K	35	72	17	l.i	15800	5100	8000	9400	0.317	0.312
2207	2207K		72	23	l.i	21500	6600	7500	8800	0.392	0.382
1307	1307K		80	21	1.5	25100	7850	6800	8000	0.500	0.492
2307	2307K		80	31	1.5	39500	11300	6300	7400	0.671	0.653
1208	1208K	40	80	18	l.i	19300	6550	7100	8400	0.414	0.407
2208	2208K		80	23	1.1	22300	7350	6700	7900	0.493	0.482
1308	1308K		90	23	1.5	29600	9700	6000	7000	0.709	0.698
2308	2308K		90	33	1.5	45000	13500	5600	6600	0.918	0.895
1209	1209K	45	85	19	l.i	21900	7350	6400	7500	0.457	0.448
2209	2209K		85	23	1.1	23200	8150	6000	7100	0.540	0.528
1309	1309K		100	25	1.5	38000	12700	5400	6300	0.953	0.930
2309	2309K		100	36	1.5	54000	16700	5000	5900	1.230	1.200
1210	121 OK	50	90	20	l.i	22700	8100	5800	6800	0.515	0.504
2210	221 OK		90	23	1.1	23200	8450	5500	6400	0.583	0.569
1211	121 IK	55	100	21	1.5	26800	10000	5300	6200	0.692	0.679
2211	221 IK		100	25	1.5	26500	9900	5000	5800	0.787	0.769
1212	1212K	60	110	22	1.5	30000	11500	4900	5800	0.879	0.864
2212	2212K		110	28	1.5	34000	12600	4600	5400	1.08	1.06
2312	2312K		130	46	2.1	87000	28200	3800	4500	2.59	2.52
1213	1213K	65	120	23	1.5	31000	12500	4500	5300	1.13	1.11
2213	2213K		120	31	1.5	43500	16400	4200	5000	1.44	1.41
1214	1214K	70	125	24	1.5	34500	13800	4200	4900	1.24	-
2214	2214K		125	31	1.5	44000	17100	3900	4600	1.52	-
2314	2314K		150	51	2.1	109000	37500	3300	3900	3.92	-
1215	1215K	75	130	25	1.5	39000	15700	3900	4600	1.33	1.31
1315	1315K		160	37	2.1	79500	30000	3300	3900	3.55	3.50
1216	1216K	80	140	26	2	40000	17000	3700	4300	1.65	1.62
2216	2216K		140	33	2	48500	19900	3400	4000	1.99	1.95
1316	1316K		170	39	2.1	88500	33000	3100	3600	4.17	4.11
2316	2316K		170	58	2.1	128000	45000	2900	3400	5.65	5.51
1217	1217K	85	150	28	2	49000	20800	3500	4100	2.06	2.03

Single Row and Duplex Arrangement 7000,7200,7300 Series



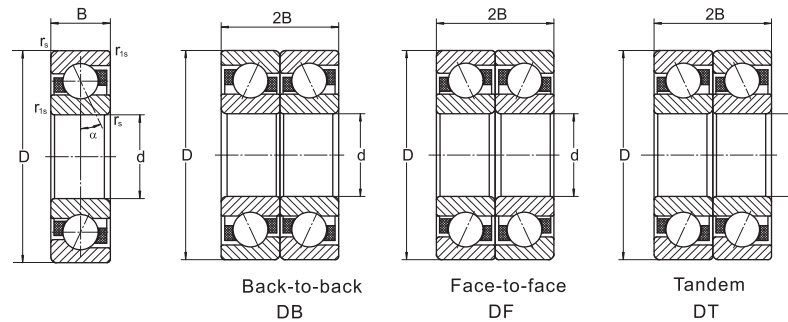
contact angle suffix:

C $\alpha=15^\circ$
A $\alpha=25^\circ$
B $\alpha=40^\circ$

KML No.	Boundary dimensions mm					Basic load ratings N		Limiting speeds RPM		Mass Kg
	d	D	B	r _s min	n.min	Dynamic C _r	Static C _{0r}	Lubrication		
								Grease	Oil	
7000	10	26	8	0.3	0.15	4650	2070	29000	39000	0.023
7200		30	9	0.6	0.3	5450	2740	28000	37000	0.029
7300		35	11	0.6	0.3	9350	4400	22000	29000	0.040
7001	12	28	8	0.3	0.15	5050	2460	26000	35000	0.025
7201		32	10	0.6	0.3	7150	3350	25000	33000	0.035
7301		37	12	1	0.6	11200	3600	23000	30000	0.044
7002	15	32	9	0.3	0.15	5800	3150	23000	31000	0.035
7202		35	11	0.6	0.3	9050	4700	22000	29000	0.046
7302		42	13	1	0.6	13500	7200	19000	26000	0.055
7003	17	35	10	0.3	0.15	7150	3850	21000	28000	0.46
7203		40	12	0.6	0.3	12000	6600	19000	26000	0.064
7303		47	14	1	0.6	15900	8650	18000	24000	0.107
7004	20	42	12	0.6	0.3	9700	5600	19000	25000	0.08
7204		47	14	1	0.6	14500	8400	17000	23000	0.10
7304		52	15	1.1	0.6	18700	10400	16000	21000	0.138
7005	25	47	12	0.6	0.3	10700	6850	16000	21000	0.093
7205		52	15	1	0.6	16200	10300	14000	19000	0.125
7305		62	17	1.1	0.6	26400	15800	13000	17000	0.23
7006	30	55	13	1	0.6	13900	9450	13000	18000	0.135
7206		62	16	1	0.6	22500	14800	12000	16000	0.193
7306		72	19	1.1	0.6	33500	22300	11000	15000	0.345
7007	35	62	14	1	0.6	17500	12600	12000	16000	0.18
7207		72	17	1.1	0.6	29700	20100	11000	14000	0.281
7307		80	21	1.5	1	40000	26300	9800	13000	0.462
7008	40	68	15	1	0.6	18800	14600	10000	14000	0.222
7208		80	18	1.1	0.6	35500	25100	9600	13000	0.355
7308		90	23	1.5	1	49000	33000	8600	12000	0.625
7009	45	75	16	1	0.6	22300	17700	9500	13000	0.282
7209		85	19	1.1	0.6	39500	28700	8700	12000	0.404
7309		100	25	1.5	1	63500	43500	7800	10000	0.837
7010	50	80	16	1	0.6	23700	20100	8600	11000	0.306
7210		90	20	1.1	0.6	41500	31500	7900	10000	0.457
7310		110	27	2	1	74000	52000	7100	9400	1.09
7011	55	90	18	1.1	0.6	31000	26300	7900	11000	0.447
7211		100	21	1.5	1	51000	39500	7100	9500	0.6
7311		120	29	2	1	86000	61500	6400	8600	1.39
7012	60	95	18	1.1	0.6	32000	28100	7200	9600	0.478
7212		110	22	1.5	1	61500	49000	6600	8800	0.765
7312		130	31	2.1	1.1	98000	71500	5900	7900	1.74
7013	65	100	18	1.1	0.6	33500	31500	6700	9000	0.509
7213		120	23	1.5	1	70500	58000	6100	8100	0.962



Single Row and Duplex Arrangement 7000,7200,7300 Series

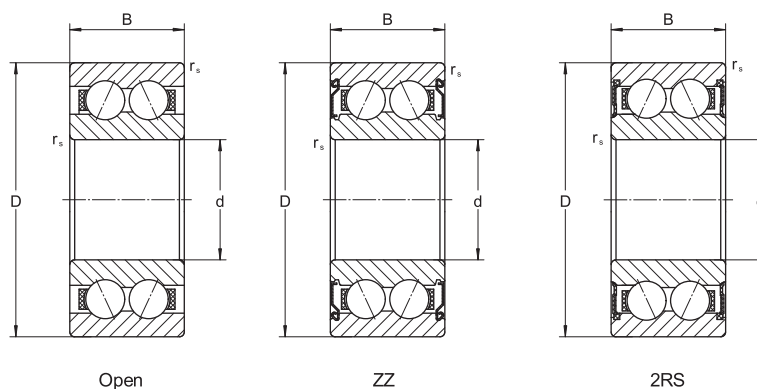


contact angle suffix:

C $\alpha=15^\circ$
A $\alpha=25^\circ$
B $\alpha=40^\circ$

KML No.	Boundary dimensions mm					Basic load ratings N		Limiting speeds RPM		Mass Kg
	d	D	B	rsmin	rismin	Dynamic Cr	Static Cor	Lubrication		
								Grease	Oil	
7313	65	140	33	2.1	1.1	111000	82000	5500	7300	2.11
7014	70	110	20	1.1	0.6	42500	39500	5700	7600	0.705
7214		125	24	1.5	1	76500	63500	6200	8300	1.09
7314		150	35	2.1	1.1	125000	93500	5100	6800	2.56
7015	75	115	20	1.1	0.6	43500	41500	5800	7800	0.745
7215		130	25	1.5	1	79000	68500	5300	7100	1.17
7315		160	37	2.1	1.1	136000	106000	4800	6300	3.07
7016	80	125	22	1.1	0.6	53500	50500	5500	7300	0.994
7216		140	26	2	1	89000	76000	5000	6600	1.39
7316		170	39	2.1	1.1	147000	119000	4500	5900	3.65
7017	85	130	22	1.1	0.6	54500	53500	5100	6900	1.04
7217		150	28	2	1	99500	88500	4700	6200	1.78
7317		180	41	3	1.1	159000	133000	4200	5600	4.34
7018	90	140	24	1.5	1	65000	63500	4900	6500	1.35
7218		160	30	2	1	118000	103000	4400	5900	2.18
7318		190	43	3	1.1	171000	147000	4000	5300	5.06
7019	95	145	24	1.5	1	67000	67000	4600	6100	1.41
7219		170	32	2.1	1.1	133000	118000	4100	5500	2.67
7319		200	45	3	1.1	183000	162000	3700	5000	5.89
7020	100	150	24	1.5	1	68500	70500	4400	5800	1.47
7220		180	34	2.1	1.1	144000	126000	3900	5200	3.20
7320		215	47	3	1.1	207000	193000	3500	4700	7.18
7021	105	160	26	2	1	80000	81500	4100	5500	1.86
7221		190	36	2.1	1.1	157000	142000	3700	5000	3.79
7321		225	49	3	1.1	220000	210000	3400	4500	8.2
7022	110	170	28	2	1	92000	93000	3900	5300	2.3
7222		200	38	2.1	1.1	170000	158000	3500	4700	4.45
7322		240	50	3	1.1	246000	246000	3200	4300	9.6

Double Row 5000, 5200, 5300 Series

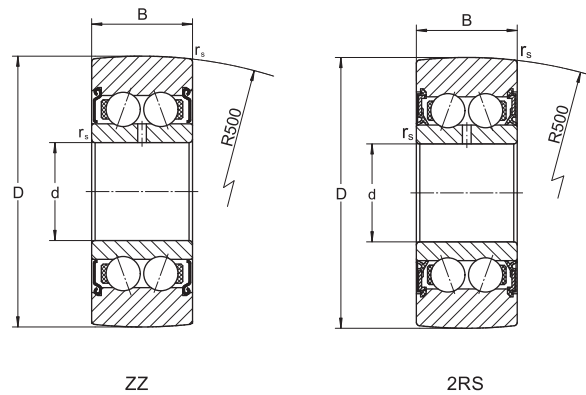


KML No.			Boundary dimensions mm				Basic load ratings N		Limiting speeds RPM		Mass Kg open type
									Lubrication		
Open	Shields	Seals	d	D	B	rsmin	Dynamic Cr	Static Cor	Grease	Oil	
5000	5000-ZZ	5000-2RS	10	26	12	0.3	5700	3250	15000	20000	0.058
5200	5200-ZZ	5200-2RS		30	14.3	0.6	6950	3800	14000	19000	0.049
5001	5001-ZZ	5001-2RS	12	28	12	0.3	6200	3750	22000	15500	0.025
5201	5201-ZZ	5201-2RS		32	15.9	0.6	7600	4500	13000	17000	0.057
5002	5002-ZZ	5002-2RS	15	32	13	0.3	8600	5400	20000	13200	0.360
5202	5202-ZZ	5202-2RS		35	15.9	0.6	8200	5250	11000	15000	0.064
5302	5302-ZZ	5302-2RS		42	19	1	14200	8850	9900	13000	0.132
5003	5003-ZZ	5003-2RS	17	35	14	0.3	9200	6200	18000	12200	0.042
5203	5203-ZZ	5203-2RS		40	17.5	0.6	10800	7100	9900	13000	0.096
5303	5303-ZZ	5303-2RS		47	22.2	1	19000	11900	9000	12000	0.181
5004	5004-ZZ	5004-2RS	20	42	16	0.6	14500	9600	16000	10600	0.080
5204	5204-ZZ	5204-2RS		47	20.6	1	15800	10100	8800	12000	0.153
5304	5304-ZZ	5304-2RS		52	22.2	1.1	19100	12500	8000	11000	0.217
5005	5005-ZZ	5005-2RS	25	47	16	0.6	15500	11100	13000	8900	0.100
5205	5205-ZZ	5205-2RS		52	20.6	1	18200	13200	7300	9800	0.175
5305	5305-ZZ	5305-2RS		62	25.4	1.1	26500	17900	6700	8900	0.362
5206	5206-ZZ	5206-2RS		62	23.8	1	26100	19700	6300	8400	0.286
5306	5306-ZZ	5306-2RS		72	30.2	1.1	33000	24300	5700	7600	0.553
5207	5207-ZZ	5207-2RS		72	27	1.1	33000	24500	5500	7400	0.436
5307	5307-ZZ	5307-2RS	40	80	34.9	1.5	49500	35000	5000	6600	0.766
5208	5208-ZZ	5208-2RS		80	30.2	1.1	40500	32000	4900	6600	0.590
5308	5308-ZZ	5308-2RS		90	36.5	1.5	55000	40000	4400	5900	1.010
5209	5209-ZZ	5209-2RS	45	85	30.2	1.1	40000	32500	4400	5900	0.640
5309	5309-ZZ	5309-2RS		100	39.7	1.5	66500	49500	4000	5300	1.340
5210	5210-ZZ	5210-2RS	50	90	30.2	1.1	39000	35000	4000	5300	0.689
5310	5310-ZZ	5310-2RS		110	44.4	2	79000	60500	3600	4800	1.81
5211	5211-ZZ	5211-2RS		100	33.3	1.5	63000	53000	3600	4900	0.986
5311	5311-ZZ	5311-2RS		120	49.2	2	92000	72000	3300	4400	2.32
5212	5212-ZZ	5312-2RS	60	110	36.5	1.5	71500	58500	3400	4500	1.27
5312	5312-ZZ	5312-2RS		130	54	2.1	122000	95500	3000	4000	3.05
5213	5213-ZZ	5213-2RS	65	120	38.1	1.5	83500	72500	3100	4200	1.57
5313	5313-ZZ	5313-2RS		140	58.7	2.1	138000	109000	2800	3700	3.96
5214	5214-ZZ	5214-2RS		125	39.7	1.5	90500	79500	2900	3900	1.80
5314	5314-ZZ	5314-2RS		150	63.5	2.1	155000	125000	2600	3500	4.74
5215	5215-ZZ	5215-2RS		130	41.3	1.5	90000	80500	2700	3600	1.90
5315	5315-ZZ	5315-2RS		160	68.3	2.1	168000	14100	2400	3200	5.65
5216	5216-ZZ	5216-2RS	80	140	44.4	2	106000	95500	2500	3400	2.39
5217	5217-ZZ	5217-2RS	85	150	49.2	2	112000	106000	2400	3200	3.06
5218	5218-ZZ	5218-2RS	90	160	52.4	2	140000	129000	2200	3000	3.73
5219	5219-ZZ	5219-2RS	95	170	55.6	2.1	159000	148000	2100	2800	4.86



Double Row (Track Roller)

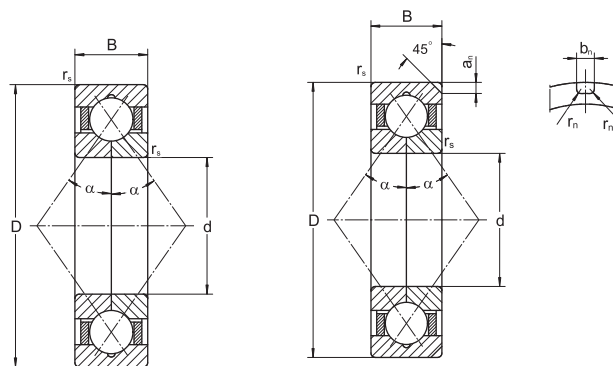
LR Series



KML No.	Boundary dimensions mm				Basic load ratings N		Mass Kg
	d	B	D	r _s min	Dynamic C _r	Static C _{0r}	
LR5202	15	15.9	40	0.6	9800	9800	0.110
LR5302	15	19.0	47	1	14600	14600	0.150
LR5203	17	17.5	47	0.6	12600	12600	0.170
LR5303	17	22.2	52	1	17200	17200	0.210
LR5204	20	20.6	52	1	15800	15800	0.230
LR5304	20	22.2	62	1.1	21100	21100	0.340
LR5205	25	20.6	62	1	18500	18500	0.340
LR5306	30	30.2	80	1.1	36500	36500	0.670
LR5007	35	20.0	68	1	17600	17600	0.300
LR5008	40	21.9	75	1	18400	18400	0.370

Four-point contact ball bearing

QJ200, QJ300 Series

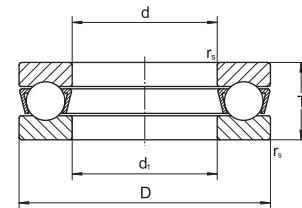


With two retaining grooves
N₂

KML No.	Boundary dimensions mm							Basic load ratings N		Fatigue limit load	Limiting speeds RPM		Mass Kg	
	d	D	B	r _s min	α _n	b _n		Dynamic C _r	Cor		Cur N	Lubrication		
												Grease		Oil
QJ206	30	62	16	1	-	-	-	30000	21600	1200	6800	8200	0.26	
QJ306		72	19	1.1	-	-	-	43100	30800	1630	6000	7500	0.48	
QJ207	35	72	17	1.1	-	-	-	31300	27000	1630	6500	7200	0.36	
QJ307		80	21	1.5	-	-	-	48500	41600	1960	6000	6600	0.58	
QJ208	40	80	18	1.1	-	-	-	36100	32000	1900	6100	6700	0.40	
QJ308		90	23	1.5	-	-	-	61300	56500	2450	5900	6400	0.85	
QJ209	45	85	19	1.1	-	-	-	39200	35200	2160	5800	6600	0.45	
QJ309		100	25	1.5	-	-	-	73100	68200	3250	5700	6300	0.94	
QJ210	50	90	20	1.1	-	-	-	49000	45000	2400	4800	5500	0.52	
QJ310		110	27	2	-	-	-	76500	72200	3900	4600	6200	1.28	
QJ211	55	100	21	1.5	-	-	-	55300	53500	3200	4500	6000	0.75	
QJ311		120	29	2	-	-	-	88900	75600	3800	3800	5100	1.70	
QJ212	60	no	22	1.5	-	-	-	64600	60500	3650	4100	5300	1.00	
QJ312		130	31	2.1	-	-	-	102200	87500	6300	3600	4700	2.10	
QJ213	65	120	23	1.5	-	-	-	72800	72800	4400	3600	4700	1.20	
QJ313		140	33	1.2	-	-	-	115500	102200	6100	3400	4500	2.7	
QJ214	70	125	24	1.5	-	-	-	79800	79800	4800	3600	4700	1.30	
QJ314		150	35	2.1	-	-	-	130200	116200	6700	3100	4100	3.10	
QJ215	75	130	25	1.5	-	-	-	81900	85400	5200	3400	4500	1.45	
QJ315N2		160	37	2.1	10.1	8.5	2	139300	130200	10500	2900	3800	3.80	
QJ216	80	140	26	2	-	-	-	96600	102200	7100	3200	4000	1.80	
QJ316N2		170	39	2.1	10.1	8.5	2	151200	145600	10800	2700	3600	4.60	
QJ317N2	85	180	41	3	11.7	10.5	2	163800	165200	11700	2500	3400	5.50	
QJ218N2	90	160	30	2	8.1	6.5	1	121800	130200	8800	2700	3600	2.70	
QJ219N2	95	170	32	2.1	8.1	6.5	1	139300	148400	10100	2500	3400	3.30	
QJ220N2	100	180	34	2.1	10.1	8.5	2	157500	168000	11200	2400	3200	4.00	



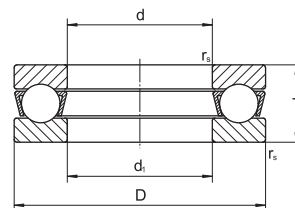
Single Direction 51100,51200, 51300 Series



KML No-	Boundary dimensions mm					Basic load ratings N		Limiting speeds RPM		Mass Kg
								Lubrication		
	d	D	T	dl	r,mln	Dynamic Cr	Static Cor	Grease	Oil	
51100		24	9	11	0.3	10000	14000	6700	9500	0.021
51200		26	11	12	0.6	12700	17100	5800	8300	0.030
51101	12	26	9	13	0.3	10300	15400	6400	9200	0.023
51201		28	11	14	0.6	13200	19000	5600	8000	0.034
51102		28	9	16	0.3	10500	16800	6200	8800	0.024
51202		32	12	17	0.6	16600	24800	5000	7100	0.046
51103		30	9	18	0.3	10800	18200	6000	8500	0.026
51203		35	12	19	0.6	17200	27300	4800	6800	0.054
51104		35	10	21	0.3	14200	24700	5200	7500	0.040
51204		40	14	22	0.6	22300	37500	4100	5900	0.061
51105	25	42	11	26	0.6	19600	37000	4600	6500	0.060
51205		47	15	27	0.6	27800	50500	3700	5300	0.111
51305		52	18	27	1	35500	61500	3200	4600	0.176
51106	30	47	11	32	0.6	20400	42000	4300	6200	0.069
51206		52	16	32	0.6	29300	58000	3400	4900	0.139
51306		60	21	32	1	43000	78500	2800	3900	0.269
51107	35	52	12	37	0.6	20400	44500	3900	5600	0.085
51207		62	18	37	1	39000	78000	2900	4200	0.215
51307		68	24	37	1	55500	105000	2400	3500	0.383
51108	40	60	13	42	0.6	26900	63000	3500	5000	0.125
51208		68	19	42	1	47000	96500	2700	3900	0.276
51308		78	26	42	1	69000	135000	2200	3100	0.548
51109	45	65	14	47	0.6	27000	69000	3200	4600	0.148
51209		73	20	47	1	48000	105000	2600	3700	0.317
51309		85	28	47	1	80000	163000	2000	2900	0.684
51110	50	70	14	52	0.6	28800	75500	3100	4500	0.161
51210		78	22	52	1	48500	111000	2400	3400	0.376
51310		95	31	52	1.1	96500	202000	1800	2600	0.951
51111	55	78	16	57	0.6	35000	93000	2800	4000	0.226
51211		90	25	57	1	69500	159000	2100	3000	0.606
51311		105	35	57	1.1	119000	246000	1600	2300	1.290
51112	60	85	17	62	1	41500	113000	2600	3700	0.296
51212		95	26	62	1	73500	179000	2000	2800	0.676
51312		no	35	62	1.1	123000	267000	1600	2300	1.370
51113	65	90	18	67	1	41500	117000	2400	3500	0.338
51213		100	27	67	1	75000	189000	1900	2700	0.767
51313		115	36	67	1.1	128000	287000	1500	2200	1.510
51114	70	95	18	72	1	43000	127000	2400	3400	0.356
51214		105	27	72	1	76000	199000	1800	2600	0.793
51314		125	40	72	1.1	148000	340000	1400	2000	2.010

Single Direction

51100, 51200, 51300 Series



KML No.	Boundary dimensions					Basic load ratings N		Limiting speeds RPM		Mass Kg
								Lubrication		
	d	D	T	dI	r _s min	Dynamic C _r	Static C _{0r}	Grease	Oil	
51115	75	100	19	77	1	44500	136000	2200	3200	0.399
51215		110	27	77	i	77500	209000	1800	2600	0.874
51315		135	44	77	1.15	171000	395000	1300	1800	2.610
51116	80	105	19	82	1	44500	141000	2200	3100	0.422
51216		115	28	82	1	77500	218000	1700	2400	0.916
51316		140	44	82	1.5	176000	425000	1200	1800	2.720
51117	85	110	19	87	1	46000	150000	2100	3000	0.444
51217		125	31	88	1	78500	264000	1600	2200	1.250
51118	90	120	22	92	1	59500	190000	1900	2700	0.687
51218		135	35	93	1.1	117000	325000	1400	2000	1.700
51120	100	135	25	102	1	85000	268000	1700	2400	0.987
51220		150	38	103	1.1	147000	410000	1300	1800	2.29
51122	110	145	25	112	1	87000	288000	1600	2300	1.07
51222		160	38	113	1.1	153000	450000	1200	1800	2.46
51124	120	155	25	122	1	84000	310000	1500	2200	0.11
51224		170	39	123	1.1	154000	470000	1200	1700	2.71
51126	130	170	30	132	1	104000	350000	1300	1900	1.73
51226		190	45	133	1.5	191000	565000	1000	1500	4.22
51128	140	180	31	142	1	107000	375000	1300	1800	1.90
51228		200	46	143	1.5	193000	595000	980	1400	4.77
51130	150	190	31	152	1	109000	400000	1200	1800	2.00
51230		215	50	153	1.5	220000	685000	900	1300	5.87

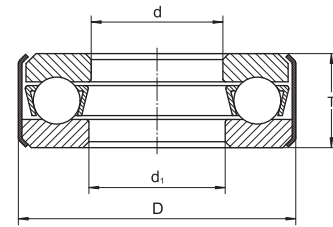


Single direction

Inch Size

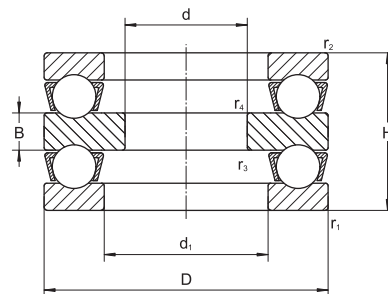
With retainer

Sealing type



KML No.	Boundary dimensions mm				Basic load ratings N		Limiting speeds	Mass Kg
	d	D	T	d1	Dynamic Cr	Static Cor	RPM	
DI	12.78	30.96	14.30	13.49	17100	24900	7000	0.120
D2	14.38	30.96	14.30	15.09	17100	24900	7000	0.110
D3	15.95	34.14	14.30	16.66	18200	29800	6000	0.140
D4	17.55	34.14	14.30	18.26	18200	29800	6000	0.180
D5	19.13	37.31	14.30	19.84	18900	32500	5500	0.220
D6	20.73	37.31	14.30	21.44	18900	32500	5500	0.240
D7	22.30	46.84	15.88	23.01	29400	54000	4100	0.280
D8	23.90	46.84	15.88	24.61	29400	54000	4100	0.270
D9	25.48	50.01	15.88	26.19	29800	58000	3800	0.300
D10	27.08	50.01	15.88	27.79	29800	58000	3800	0.290
DI 1	28.65	53.19	15.88	29.36	30700	62000	3600	0.330
DI 2	30.25	53.19	15.88	30.96	30700	62000	3600	0.310
DI 3	31.83	59.54	15.88	32.54	32000	70000	3200	0.410
DI 4	33.43	59.54	15.88	34.14	32000	70000	3200	0.400
DI 5	35.00	62.71	15.88	35.71	32500	74000	3000	0.450
B9	25.4	50.1	19.05	26.187	33670	61040	4000	0.361
B13	31.75	59.538	19.05	32.50	36450	75130	3200	0.222

Double Direction 52200 Series



KML No.	Boundary dimensions mm							Basic load ratings N		Limiting speeds RPM		Mass Kg
	d	D	H	dI	B	r, r, min	r ₃ r ₄ min	Dynamic Cr	Static Cor	Lubrication		
										Grease	Oil	
52202	10	32	22	17	5	0.6	0.3	16600	24800	5000	7100	0.085
52204	15	40	26	22	6	0.6	0.3	22300	37500	4100	5900	0.149
52205	20	47	28	27	7	0.6	0.3	27800	50500	3700	5300	0.212
52206	25	52	29	32	7	0.6	0.3	29300	58000	3400	4900	0.252
52207	30	62	34	37	8	1	0.3	39000	78000	2900	4200	0.418
52208		68	36	42	9	1	0.6	47000	98500	2700	3900	0.559
52209	35	73	37	47	9	1	0.6	48000	105000	2600	3700	0.634
52210	40	78	39	52	9	1	0.6	48500	111000	2400	3400	0.730
52211	45	90	45	57	10	1	0.6	69500	159000	2100	3000	1.14
52212	50	95	46	62	10	1	0.6	73500	179000	2000	2800	1.25
52213	55	100	47	67	10	1	0.6	75000	189000	1900	2700	1.37
52215	60	110	47	77	10	1	1	77500	209000	1800	2600	1.67
52216	65	115	48	82	10	1	1	78500	218000	1700	2400	1.80
52217	70	125	55	88	12	1	1	95500	264000	1600	2200	2.47
52218	75	135	62	93	14	1.1	1	117000	325000	1400	2000	3.26
52220	85	150	67	103	15	1.1	1	147000	410000	1300	1800	4.27
52222	95	160	67	113	15	1.1	1	153000	450000	1200	1800	4.63
52224	100	170	68	123	15	1.1	1.1	154000	470000	1200	1700	5.36
52226	110	190	80	133	18	1.5	1.1	191000	565000	1000	1500	8.40
52228	120	200	81	143	18	1.5	1.1	193000	595000	980	1400	9.05
52230	130	215	89	153	20	1.5	1.1	238000	735000	900	1300	11.5
52232	140	225	90	163	20	1.5	1.1	242000	780000	850	1200	12.0
52234	150	240	97	173	21	1.5	1.1	286000	930000	800	1100	15.0
52236		250	98	183	21	1.5	2	294000	986000	710	1100	15.9



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