

Deep Groove Ball Bearings

Single Shielded

Deep Groove Ball Bearings – Single Shielded

RoHS 10

B6__Z

Installation Diagram

Material: 52100 Bearing Steel
Bearing Accuracy JIS B 1514 Class 0

Shipped with no grease applied. Please apply grease before using.

kgf=Nx0.101972

Part Number	d	D	B	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions				Mass (g) (Reference)
					Cr (Dynamic) kN	Co (Static) kN		Ds		dh (max.)	R (max.)	
								(min)	(max.)			
B6000Z	10	26	8	0.3	4.55	1.97	30000	12	13	24	0.3	18
B6200Z		30	9	0.6	5.1	2.39	24000	14	16	26	0.6	32
B6300Z		35	11	0.6	8.1	3.45	22000	14	16.5	31	0.6	52
B6001Z	12	28	8	0.3	5.1	2.37	28000	14	15.5	26	0.3	22
B6201Z		32	10	0.6	6.8	3.05	22000	16	17	28	0.6	37
B6301Z		37	12	1	9.7	4.2	20000	17	18	32	1	60
B6002Z	15	32	9	0.3	5.6	2.83	24000	17	19	30	0.3	31
B6202Z		35	11	0.6	7.65	3.75	20000	19	20.5	31	0.6	45
B6302Z		42	13	1	11.4	5.45	17000	20	22.5	37	1	83
B6003Z	17	35	10	0.3	6	3.25	22000	19	21.5	33	0.3	41
B6203Z		40	12	0.6	9.55	4.8	17000	21	23.5	36	0.6	67
B6303Z		47	14	1	13.6	6.65	15000	22	25.5	42	1	113
B6004Z	20	42	12	0.6	9.4	5	18000	24	25.5	38	0.6	68
B6204Z		47	14	1	12.8	6.6	15000	25	26.5	42	1	107
B6304Z		52	15	1.1	15.9	7.9	14000	26.5	28	45.5	1	145
B6005Z	25	47	12	0.6	10.1	5.85	15000	29	30	43	0.6	79
B6205Z		52	15	1	14	7.85	13000	30	32	47	1	129
B6305Z		62	17	1.1	20.6	11.2	11000	31.5	36	55.5	1	235
B6006Z	30	55	13	1	13.2	8.3	13000	35	36.5	50	1	116
B6206Z		62	16	1	19.5	11.3	11000	35	38.5	57	1	199
B6306Z		72	19	1.1	26.7	15	9500	36.5	42.5	65.5	1	345
B6007Z	35	62	14	1	16	10.3	11000	40	41.5	57	1	151
B6207Z		72	17	1.1	25.7	15.3	9500	41.5	44.5	65.5	1	284
B6307Z		80	21	1.5	33.5	19.2	8500	43	47	72	1.5	464
B6008Z	40	68	15	1	16.8	11.5	10000	45	47.5	63	1	190
B6208Z		80	18	1.1	29.1	17.9	8500	46.5	50.5	73.5	1	366
B6308Z		90	23	1.5	40.5	24	7500	48	53	82	1.5	636
B6009Z	45	75	16	1	20.9	15.2	9000	50	53.5	70	1	241
B6209Z		85	19	1.1	31.5	20.4	7500	51.5	55.5	78.5	1	420
B6309Z		100	25	1.5	53	32	6700	53	61.5	92	1.5	829
B6010Z	50	80	16	1	21.8	16.6	8500	55	58.5	75	1	261
B6210Z		90	20	1.1	35	23.2	7100	56.5	60	83.5	1	459
B6310Z		110	27	2	62	38.5	6000	59	68	101	2	1060

Part Number Example: **B6003Z**

Deep Groove Ball Bearings

Double Shielded with C3 Clearance

Features: Radial clearance is larger than standard products. Common for tight joining-fit and potential temperature difference between outer and inner rings.

Deep Groove Ball Bearings – Double Shielded with C3 Clearance

RoHS 10

B6__ZZC3

Installation Diagram

Radial Clearance Unit: μm

Bearing Inner Dia. d (mm)	Equal To or Less Than	CN		C3	
		Min.	MAX	Min.	MAX
Only 10		2	13	8	23
10	18	3	18	11	25
18	24	5	20	13	28
24	30	5	20	13	28
30	40	6	20	15	33
40	50	6	23	18	36

Material: 52100 Bearing Steel
Bearing Accuracy JIS B 1514 Class 0

kgf=Nx0.101972

Part Number	d	D	B	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions				Mass (g) (Reference)
					Cr (Dynamic) kN	Co (Static) kN		Ds		dh (max.)	R (max.)	
								(min)	(max.)			
B6000ZC3	10	26	8	0.3	4.55	1.97	30000	12	13	24	0.3	18
B6200ZC3		30	9	0.6	5.1	2.39	24000	14	16	26	0.6	32
B6300ZC3		35	11	0.6	8.1	3.45	22000	14	16.5	31	0.6	52
B6001ZC3	12	28	8	0.3	5.1	2.37	28000	14	15.5	26	0.3	22
B6201ZC3		32	10	0.6	6.8	3.05	22000	16	17	28	0.6	37
B6301ZC3		37	12	1	9.7	4.2	20000	17	18	32	1	60
B6002ZC3	15	32	9	0.3	5.6	2.83	24000	17	19	30	0.3	31
B6202ZC3		35	11	0.6	7.65	3.75	20000	19	20.5	31	0.6	45
B6302ZC3		42	13	1	11.4	5.45	17000	20	22.5	37	1	83
B6003ZC3	17	35	10	0.3	6	3.25	22000	19	21.5	33	0.3	41
B6203ZC3		40	12	0.6	9.55	4.8	17000	21	23.5	36	0.6	67
B6303ZC3		47	14	1	13.6	6.65	15000	22	25.5	42	1	113
B6004ZC3	20	42	12	0.6	9.4	5	18000	24	25.5	38	0.6	68
B6204ZC3		47	14	1	12.8	6.6	15000	25	26.5	42	1	107
B6304ZC3		52	15	1.1	15.9	7.9	14000	26.5	28	45.5	1	145
B6005ZC3	25	47	12	0.6	10.1	5.85	15000	29	30	43	0.6	79
B6205ZC3		52	15	1	14	7.85	13000	30	32	47	1	129
B6305ZC3		62	17	1.1	20.6	11.2	11000	31.5	36	55.5	1	235
B6006ZC3	30	55	13	1	13.2	8.3	13000	35	36.5	50	1	116
B6206ZC3		62	16	1	19.5	11.3	11000	35	38.5	57	1	199
B6306ZC3		72	19	1.1	26.7	15	9500	36.5	42.5	65.5	1	345
B6007ZC3	35	62	14	1	16	10.3	11000	40	41.5	57	1	151
B6207ZC3		72	17	1.1	25.7	15.3	9500	41.5	44.5	65.5	1	284
B6307ZC3		80	21	1.5	33.5	19.2	8500	43	47	72	1.5	464
B6008ZC3	40	68	15	1	16.8	11.5	10000	45	47.5	63	1	190
B6208ZC3		80	18	1.1	29.1	17.9	8500	46.5	50.5	73.5	1	366
B6308ZC3		90	23	1.5	40.5	24	7500	48	53	82	1.5	636
B6009ZC3	45	75	16	1	20.9	15.2	9000	50	53.5	70	1	241
B6209ZC3		85	19	1.1	31.5	20.4	7500	51.5	55.5	78.5	1	420
B6309ZC3		100	25	1.5	53	32	6700	53	61.5	92	1.5	829
B6010ZC3	50	80	16	1	21.8	16.6	8500	55	58.5	75	1	261
B6210ZC3		90	20	1.1	35	23.2	7100	56.5	60	83.5	1	459
B6310ZC3		110	27	2	62	38.5	6000	59	68	101	2	1060

Part Number Example: **B6004ZC3**