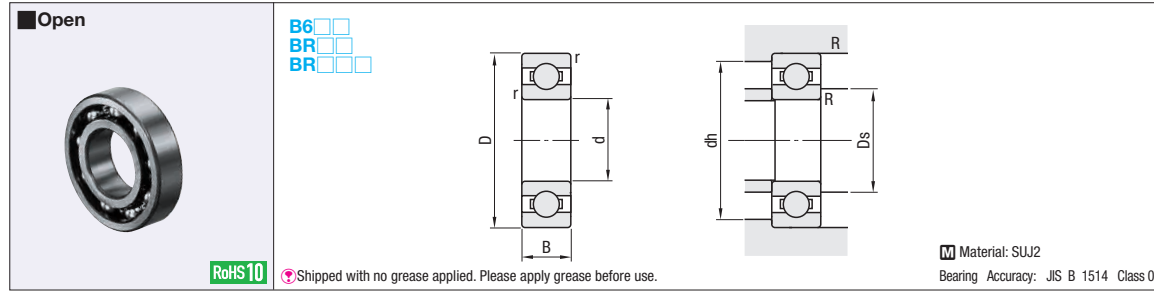


# Small Ball Bearings

Open



Material: SUJ2  
Bearing Accuracy: JIS B 1514 Class 0

For details on the tolerance and allowable values of inner and outer rings, P2243

Part Number	d	D	B	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions			Mass (g) (Reference)	Unit Price
					Cr (Dynamic) N	Co (Static) N		Ds (min)	dh (max)	R (max)		
B683	3	7	2	0.1	311	112	63000	3.85	6.35	0.1	0.32	
B603		9	3	0.15	571	189	56000	4.35	7.9	0.15	0.84	
B623		10	4		631	219	50000	4.35	7.98		1.45	
B634	4	16	5	0.3	1340	523	36000	6.7	13	0.3	5.24	
B605	5	14		0.2	1329	507	40000	6.9	12.2	0.2	3.46	
B625	16	0.3		1729	675	36000	7.5	13.8	4.95			
B606	6	17	6	0.3	2263	846	38000	8.2	14.8	0.3	5.94	
B626		19			2336	896	32000	8.5	16.5		8.12	
B608	8	22	7	0.3	3293	1379	34000	10.5	19.03	0.3	11.8	
B628		24	8		3333	1423	28000	11.9	19.9		17.1	

Part Number	d	D	B	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions			Mass (g) (Reference)	Unit Price
					Cr (Dynamic) N	Co (Static) N		Ds (min)	dh (max)	R (max)		
BR63	3	6	2	0.1	209	74	71000	3.7	4.9	0.1	0.2	
BR74	4	7			311	115	60000	4.75	6.25		0.23	
BR84		8		0.15	395	141	56000	5	6.8	0.39		
BR104	10	3	0.2	711	272	48000	6.15	8.35	0.15	0.96		
BR85	5	8	2	0.1	308	120	53000	5.75	7.25	0.1	0.25	
BR95		9	2.5	0.15	431	169	50000	6	7.8	0.15	0.54	
BR105		10	3		431	169			0.91			
BR106	6	10	2.5	0.15	496	218	45000	7.04	8.9	0.1	0.55	
BR126		12	3		0.2	714	295	43000	7.73	10.19	0.15	1.25
BR128	8	12	2.5	0.15	543	274	40000	9.05	10.9	0.1	0.7	
BR148		14	3.5	0.2	817	386	38000	9.86	12.19	0.15	1.9	

kgf=Nx0.101972

Ordering Example  
Part Number  
B605  
BR126

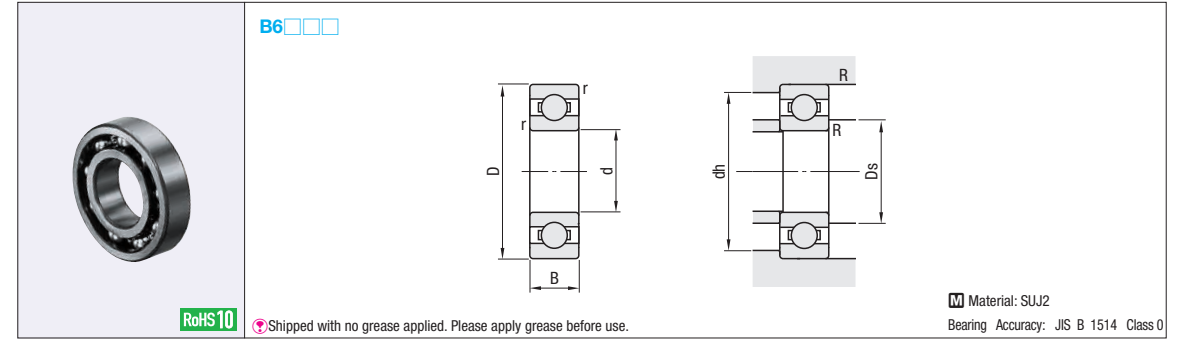
## Structure and Features of Ball Bearings

Type	Open	Double Shielded (ZZ)	Non-Contact Sealed (V)	Contact Seal (DDU)
Sealed Type	-	Low	Low	Large Due to seal is in contact
Friction Torque	-	Low	Low	Large Due to seal is in contact
High Speed	○	○	○	△
Dust Resistance	×	△	○	○
Water Resistance	×	×	×	○
Operating Temperature	Depends on the lubricant	-10 ~ 110°C		-10 ~ 100°C

The table above is for reference to compare the four shapes.  
○ Well Suited ○ Good △ Questionable × Not Suitable

# Deep Groove Ball Bearings

Open



Material: SUJ2  
Bearing Accuracy: JIS B 1514 Class 0

For details on the tolerance and allowable values of inner and outer rings, P2243

Part Number	d	D	B	r (min)	Basic Load Rating		Allowable Rotational Speed rpm (Reference)	Relative Dimensions				Mass (g) (Reference)	Unit Price
					Cr (Dynamic) kN	Co (Static) kN		Ds		dh	R		
								(min)	(max)	(max)	(max)		
B6700	10	15	3	0.2	0.85	0.43	15000	10.4	11.21	14.2	0.2	2	
B6800		19	5	0.3	1.83	0.925	34000	12	12.5	17	0.3	5	
B6900		22	6		2.70	1.27	32000		13	20		9	
B6000	12	26	8	0.6	4.55	1.96	30000	12	13.5	24	0.6	19	
B6200		30	9		5.10	2.39	24000	14	16	26		32	
B6701		18	4	0.2	0.92	0.53	13000	12.4	13.86	16.7	0.2	3	
B6801	12	21	5	0.3	1.92	1.04	32000	14	14.5	19	0.3	6	
B6901		24	6		2.89	1.46	30000		15	22		11	
B6001		28	8	5.10	2.39	28000	16	16	26	21			
B6201	15	32	10	0.6	6.10	2.75	22000	16	17	28	0.6	37	
B6702		21	4	0.2	0.93	0.58	11000	15.4	16.86	19.7	0.2	4	
B6802		24	5	0.3	2.08	1.26	28000	17	17.5	22	0.3	7	
B6902	28	7	3.65		2.00	26000	18.5		26	16			
B6002	17	32	9	0.6	5.60	2.83	24000	19	19	30	0.6	30	
B6202		35	11		7.75	3.60	20000		20	31		45	
B6803		26	5	2.23	1.46	26000	19.5	24	8				
B6903	17	30	7	0.3	4.65	2.58	24000	21	20	28	0.3	18	
B6003		35	10		6.80	3.35	22000		21	33		39	
B6203		40	12	0.6	9.60	4.60	17000	21	23	36	0.6	66	
B6704	20	27	4	0.2	1.40	0.72	8500	20.4	22.36	25.5	0.2	6	
B6804		32	7	0.3	4.00	2.47	22000	22	22.5	30	0.3	19	
B6904		37	9		6.40	3.70	19000		24	35		36	
B6004	20	42	12	0.6	9.40	5.05	18000	24	26	38	0.6	69	
B6204		47	14	1.0	12.80	6.65	15000	25	42	42	1.0	106	
B6805		37	7	0.3	4.30	2.95	18000	27	28	35	0.3	22	
B6905	42	9	7.05		4.55	16000	29		40	42			
B6005	25	47	12	0.6	10.10	5.85	15000	29	30.5	43	0.6	80	
B6205		52	15	1.0	14.00	7.85	13000	30	32	47	1.0	128	
B6806		42	7	0.3	4.70	3.65	15000	32	33	40	0.3	26	
B6906	47	9	7.25		5.00	14000	34		45	48			
B6006	30	55	13	1.0	13.20	8.30	13000	35	37	50	1.0	116	
B6206		62	16		19.50	11.30	11000		39	57		199	
B6807		47	7	0.3	4.90	4.05	14000	37	38	45	0.3	29	
B6907	35	55	10	0.6	9.55	6.85	12000	39	40	51	0.6	74	
B6007		62	14	1.0	16.00	10.30	11000	40	42	57	1.0	155	
B6207		72	17	1.1	25.70	15.30	9500	41.5	45	65.5		288	
B6808	40	52	7	0.3	5.10	4.40	12000	42	43	50	0.3	33	
B6908		62	12	0.6	12.20	8.90	11000	44	45	58	0.6	110	
B6008		68	15	1.0	16.80	11.50	10000	45	47	63	1.0	190	
B6208	50	80	18	1.1	29.10	17.80	8500	46.5	51	73.5	1.0	366	
B6010		16	1.0	21.80	16.60	8500	55.0	57.5	75.0	261			
B6210		90	20	1.1	35.00	23.20	7100	56.5	60.0	83.5	454		

kgf=Nx0.101972

Ordering Example  
Part Number  
B6200