

SMT

6800 and 6900 series

Thin-Wall Bearings

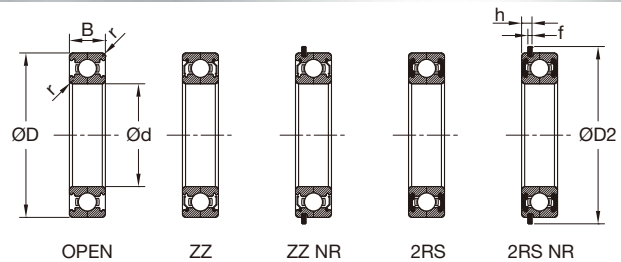


6800/6900 series ball bearings, suitable for compact design and reduction of weight in machinery and equipment.

Specifications

Standard Specifications

Inner and Outer Rings	SAE 52100
Ball*1	SAE 52100
Retainer	SPCC
Shield	SECC
Seal	Nitrile rubber
Snap Ring	SWRH77A
Lubricant*2	Lithium grease
Precision Grade	JIS0



Special specifications also available:

*1 Available with ceramic balls (Silicon nitride Si₃N₄). *2 Available with food grade grease and other special greases. 3 C3 or C4 radial clearance

Basic Part No.	d mm	D mm	B mm	r (min) mm	Basic Load Ratings				Limiting Speeds (min ⁻¹)			D2 (max) mm	f (max) mm	h (max) mm
					Cr		Cor		Grease					
					N	kgf	N	kgf	Open ZZ	2RS	Oil			
6800	10	19	5	0.3	2120	216	985	100	34000	24000	41000	—	—	—
6900	10	22	6	0.3	2700	275	1270	130	31000	22000	38000	24.8	0.70	1.75
6801	12	21	5	0.3	1920	195	1040	106	30000	20000	36000	—	—	—
6901	12	24	6	0.3	2890	295	1460	149	28000	19000	33000	26.8	0.70	1.75
6802	15	24	5	0.3	2080	212	1260	128	26000	17000	31000	—	—	—
6902	15	28	7	0.3	4300	440	2250	230	23000	16000	28000	30.8	0.85	2.15
6803	17	26	5	0.3	2630	268	1570	160	23000	15000	28000	—	—	—
6903	17	30	7	0.3	4600	470	2550	260	21000	14000	26000	32.8	0.85	2.15
6804	20	32	7	0.3	4000	410	2460	251	20000	13000	24000	34.8	0.85	2.15
6904	20	37	9	0.3	6400	650	3700	375	18000	12000	21000	39.8	0.85	2.55
6805	25	37	7	0.3	4300	440	2940	300	16000	10000	20000	—	—	—
6905	25	42	9	0.3	7000	715	4550	465	15000	9700	18000	44.8	0.85	2.55
6806	30	42	7	0.3	4550	465	3400	350	14000	8800	17000	—	—	—
6906	30	47	9	0.3	7250	740	5000	510	13000	8500	16000	—	—	—
6807	35	47	7	0.3	4750	485	3800	390	12000	7600	15000	—	—	—
6907	35	55	10	0.6	10400	1060	7200	730	11000	7200	13000	—	—	—
6808	40	52	7	0.3	4950	505	4200	425	11000	6700	13000	—	—	—
6908	40	62	12	0.6	13700	1390	9950	1010	9600	6400	12000	—	—	—
6809	45	58	7	0.3	5400	550	4900	500	9700	6000	12000	—	—	—
6810	50	65	7	0.3	6400	650	5850	595	8700	5300	10000	—	—	—

* The performance values on this catalog are not guaranteed and the specifications may change without prior notice for improved performance.

SMT

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