

FEATURES

- Deep raceway grooves
- Deliver high performance and high load capacity
- Offers better protection against dirt and grease

Longer lifespan

3mm Miniature Ball Bearing 10mm O.D

RS Stock No.: 618-9884



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS Pro shielded deep groove ball bearings are versatile ball bearings that suit high and very high speeds, they will accommodate both radial load and axial load in both directions. The ball bearings need very little maintenance. RS Pro deep groove ball bearings come in a range of different sizes. This range is single row ball bearings.

General Specifications

Ball Bearing Type	Miniature
End Type	Shielded
Number of Rows	1
Static Load Rating	219N
Material	Steel
Race Type	Plain
Bore Type	Parallel
Application	Food and Beverage Industry, Pharmaceutical, Medical industry, Engines and Pumps, Medical Industry, Printing

Mechanical Specifications

Inside Diameter	3mm
Outside Diameter	10mm
Race Width	4mm
Dynamic Load Rating	631N
Static Load	141N
Mass	0.0016kg



RS Article no.	Description	Designation	End type	Race Type	ID mm	OD mm	Width mm	Load		Max. Speed rating		Mass Kg
								Dynamic N	Static N	Grease rpm	Oil rpm	
6189884	Single Row Shld 3mm ID	623-2Z	Shielded	Plain	3	10	4	0.403	0.141	45000	52200	0.0016
6189890	Single Row Shld 4mm ID	624-2Z	Shielded	Plain	4	13	5	0.825	0.309	37800	44100	0.0032
6189907	Single Row Shld 5mm ID	625-2Z	Shielded	Plain	5	16	5	1.109	0.428	33300	39600	0.0048
6190014	Single Row Shld 6mm ID	626-2Z	Shielded	Plain	6	19	6	1.474	0.558	30600	36000	0.0010
6190020	Single Row Shld 7mm ID	627-2Z	Shielded	Plain	7	19	6	1.411	0.573	30600	36000	0.0080
6190042	Single Row Shld 7mm ID	627-2Z	Shielded	Plain	7	22	7	2.111	0.882	28800	33300	0.0130
6190036	Single Row Shld 8mm ID	628-2Z	Shielded	Plain	8	22	7	2.111	0.882	28800	33300	0.0120
6190058	Single Row Shld 9mm ID	629-2Z	Shielded	Plain	9	24	7	2.142	0.914	27900	32400	0.0140
6190070	Single Row Shld 9mm ID	629-2Z	Shielded	Plain	9	26	8	2.867	1.235	27000	31500	0.0200
6190064	Single Row Shld 10mm ID	6800-2Z	Shielded	Plain	10	19	5	1.153	0.583	28800	34200	0.0050
6190086	Single Row Shld 10mm ID	6000-2Z	Shielded	Plain	10	26	8	4.095	1.764	26100	30600	0.0190
6190092	Single Row Shld 10mm ID	6200-2Z	Shielded	Plain	10	30	9	4.590	2.151	22500	27000	0.0320
6190115	Single Row Shld 10mm ID	6300-2Z	Shielded	Plain	10	35	11	7.380	3.150	20700	24300	0.0530
6190137	Single Row Shld 12mm ID	6801-2Z	Shielded	Plain	12	21	5	1.210	0.655	26100	31500	0.0060
6190193	Single Row Shld 12mm ID	6001-2Z	Shielded	Plain	12	28	8	4.590	2.151	23400	27000	0.0210
6190216	Single Row Shld 12mm ID	6201-2Z	Shielded	Plain	12	32	10	5.490	2.475	19800	23400	0.0370
6190222	Single Row Shld 12mm ID	6301-2Z	Shielded	Plain	12	37	12	8.730	3.780	18000	21600	0.0600
6190244	Single Row Shld 15mm ID	6802-2Z	Shielded	Plain	15	24	5	1.310	0.794	23400	27900	0.0070
6190238	Single Row Shld 15mm ID	6002-2Z	Shielded	Plain	15	32	9	5.040	2.556	19800	23400	0.0300
6190250	Single Row Shld 15mm ID	6202-2Z	Shielded	Plain	15	35	11	6.975	3.240	17100	20700	0.0450
6190272	Single Row Shld 15mm ID	6302-2Z	Shielded	Plain	15	42	13	10.260	4.905	15300	18900	0.0820
6190367	Single Row Shld 17mm ID	6803-2Z	Shielded	Plain	17	26	5	1.770	1.084	21600	25200	0.0080
6190389	Single Row Shld 17mm ID	6003-2Z	Shielded	Plain	17	35	10	6.120	3.015	18000	21600	0.0390
6190373	Single Row Shld 17mm ID	6203-2Z	Shielded	Plain	17	40	12	8.640	4.140	16200	18900	0.0660
6190395	Single Row Shld 17mm ID	6303-2Z	Shielded	Plain	17	47	14	12.150	5.895	14400	17100	0.1150
6190402	Single Row Shld 20mm ID	6804-2Z	Shielded	Plain	20	32	7	3.600	2.223	18900	22500	0.0190
6190424	Single Row Shld 20mm ID	6004-2Z	Shielded	Plain	20	42	12	8.460	4.545	16200	18900	0.0690
6190418	Single Row Shld 20mm ID	6204-2Z	Shielded	Plain	20	47	14	11.520	5.985	14400	16200	0.1060
6190430	Single Row Shld 20mm ID	6304-2Z	Shielded	Plain	20	52	15	14.310	7.110	12600	15300	0.1440
6190812	Single Row Shld 25mm ID	6805-2Z	Shielded	Plain	25	37	7	3.870	2.655	16200	18900	0.0220
6190632	Single Row Shld 25mm ID	6005-2Z	Shielded	Plain	25	47	12	9.090	5.265	13500	16200	0.0800
6190654	Single Row Shld 25mm ID	6205-2Z	Shielded	Plain	25	52	15	12.600	7.065	11700	13500	0.1280
6190648	Single Row Shld 25mm ID	6305-2Z	Shielded	Plain	25	62	17	19.080	9.810	10800	12600	0.2320
6190660	Single Row Shld 30mm ID	6006-2Z	Shielded	Plain	30	55	13	11.880	7.470	11700	13500	0.1160
6190676	Single Row Shld 30mm ID	6206-2Z	Shielded	Plain	30	62	16	17.550	10.170	9900	11700	0.1990
6190698	Single Row Shld 30mm ID	6306-2Z	Shielded	Plain	30	72	19	24.030	13.500	9000	10800	0.3600
6190682	Single Row Shld 35mm ID	6007-2Z	Shielded	Plain	35	62	14	14.400	9.270	10800	12600	0.1550
6190705	Single Row Shld 35mm ID	6207-2Z	Shielded	Plain	35	72	17	23.130	13.770	8820	9900	0.2880
6190711	Single Row Shld 35mm ID	6307-2Z	Shielded	Plain	35	80	21	30.150	17.190	7920	9000	0.4570
6190733	Single Row Shld 40mm ID	6008-2Z	Shielded	Plain	40	68	15	15.120	10.350	9000	10800	0.1900
6190727	Single Row Shld 40mm ID	6208-2Z	Shielded	Plain	40	80	18	26.190	16.020	7830	9000	0.3660
6190749	Single Row Shld 40mm ID	6308-2Z	Shielded	Plain	40	90	23	36.450	21.600	7020	8280	0.6300
6190755	Single Row Shld 45mm ID	6009-2Z	Shielded	Plain	45	75	16	18.900	13.590	8280	9900	0.2370
6190761	Single Row Shld 45mm ID	6209-2Z	Shielded	Plain	45	85	19	29.250	18.360	7020	8280	0.3980
6190763	Single Row Shld 45mm ID	6309-2Z	Shielded	Plain	45	100	25	47.700	28.800	6300	7380	0.8140
6190777	Single Row Shld 50mm ID	6010-2Z	Shielded	Plain	50	80	16	19.620	14.940	7560	8820	0.2610
6190799	Single Row Shld 50mm ID	6210-2Z	Shielded	Plain	50	90	20	31.500	20.880	6390	7470	0.4540
6190806	Single Row Shld 50mm ID	6310-2Z	Shielded	Plain	50	110	27	55.800	34.650	5760	6750	1.0700