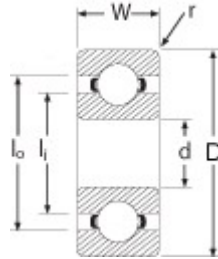


Miniature Bearing

Miniature Ball Bearing-Open Type



Shield / closure: Open Bearing, Z, ZZ, RS, 2RS, TT
Tolerance codes: ABEC-1, ABEC-3, ABEC-5, ABEC-7
Vibration level codes: V4, V3, V2, V1
Internal clearance codes: C2, C3, C4, C5
Material: AISI52100, AISI440C, AISI304, AISI316, Ceramic
Retainer: PTFE, Nylon, PEEK or Stainless Steel

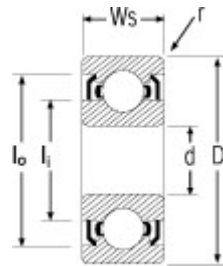
Code	Bore Diameter "d"	Outer Diameter "D"	Width "W"	Load Rating Cr (N)	Load Rating Cor (N)	Max. Speed (1000rpm)		Weight (g)
						Grease	Oil	
681	1.0	3	1.0	96	26	130	3	0.03
691	1.0	4	1.6	141	37	100	4	0.11
681X	1.5	4	1.2	112	33	100	4	0.10
691X	1.5	5	2.0	169	50	85	5	0.20
601X	1.5	6	2.5	330	99	75	6	0.31
682	2.0	5	1.5	169	50	85	5	0.15
MR52	2.0	5	2.0	169	50	85	5	0.14
692	2.0	6	2.3	330	99	75	6	0.28
MR62	2.0	6	2.5	330	99	75	6	0.28
MR72	2.0	7	2.8	386	129	63	7	0.43
602	2.0	7	2.8	386	129	60	7	0.50
682X	2.5	6	1.8	209	74	71	6	0.20
692X	2.5	7	2.5	386	129	63	7	0.40
MR82X	2.5	8	2.5	558	180	60	8	0.52
602X	2.5	8	2.8	552	177	60	8	0.61
MR63	3.0	6	2.0	209	74	71	6	0.20
683	3.0	7	2.0	311	112	63	7	0.32
MR83	3.0	8	2.5	395	141	60	8	0.51
693	3.0	8	3.0	558	180	60	8	0.60
MR93	3.0	9	2.5	571	189	56	9	0.75
603	3.0	9	3.0	571	189	56	9	0.84
623	3.0	10	4.0	631	219	50	10	1.45
633	3.0	13	5.0	1301	488	40	13	3.27
MR74	4.0	7	2.0	255	108	60	7	0.25
MR84	4.0	8	2.0	395	141	56	8	0.39
684	4.0	9	2.5	641	227	53	9	0.65
MR104	4.0	10	3.0	711	272	48	10	0.96

Miniature Bearing

694	4.0	11	4.0	957	350	48	11	1.69
604	4.0	12	4.0	957	350	48	12	2.19
624	4.0	13	5.0	1301	488	40	13	3.10
634	4.0	16	5.0	1340	523	36	16	5.24
MR85	5.0	8	2.0	218	90	53	8	0.25
MR95	5.0	9	2.5	431	169	50	9	0.54
MR105	5.0	10	3.0	431	169	50	10	0.91
MR115	5.0	11	4.0	716	282	45	11	1.60
685	5.0	11	3.0	716	282	45	11	1.16
695	5.0	13	4.0	1077	432	43	13	2.39
605	5.0	14	5.0	1329	507	40	14	3.46
625	5.0	16	5.0	1729	675	36	16	4.95
635	5.0	19	6.0	2336	896	32	19	8.50
MR106	6.0	10	2.5	496	218	45	10	0.55
MR126	6.0	12	3.0	716	295	43	12	1.25
686	6.0	13	3.5	1082	442	40	13	1.87
696	6.0	15	5.0	1340	523	40	15	3.85
606	6.0	17	6.0	2263	846	38	17	5.94
626	6.0	19	6.0	2336	896	32	19	8.12
636	6.0	22	7.0	3333	1423	30	22	13.90
MR117	7.0	11	2.5	455	202	43	11	0.59
MR137	7.0	13	3.0	541	276	40	13	1.52
687	7.0	14	3.5	1173	513	40	14	2.03
697	7.0	17	5.0	1605	719	36	17	5.26
607	7.0	19	6.0	2336	896	36	19	7.80
627	7.0	22	7.0	3287	1379	30	22	12.70
637	7.0	26	9.0	4563	1983	28	26	24.20
MR128	8.0	12	2.5	543	274	40	12	0.70
MR148	8.0	14	3.5	817	386	38	14	1.90
688	8.0	16	4.0	1252	592	36	16	3.11
698	8.0	19	6.0	2237	917	36	19	7.12
608	8.0	22	7.0	3293	1379	34	22	11.80
628	8.0	24	8.0	3333	1423	28	24	17.10
638	8.0	28	9.0	4563	1983	28	28	28.10
679	9.0	14	3.0	919	468	36	14	1.35
689	9.0	17	4.0	1327	668	36	17	3.41
699	9.0	20	6.0	2467	1081	34	20	8.38
609	9.0	24	7.0	3356	1444	32	24	14.70
629	9.0	26	8.0	4575	1983	28	26	19.00
639	9.0	30	10.0	4659	2080	24	30	36.20

Miniature Bearing

Miniature Ball Bearing-Shielded Type



Shield / closure: Open Bearing, Z, ZZ, RS, 2RS, TT
Tolerance codes: ABEC-1, ABEC-3, ABEC-5, ABEC-7
Vibration level codes: V4, V3, V2, V1
Internal clearance codes: C2, C3, C4, C5
Material: AISI52100, AISI440C, AISI304, AISI316, Ceramic
Retainer: PTFE, Nylon, PEEK or Stainless Steel

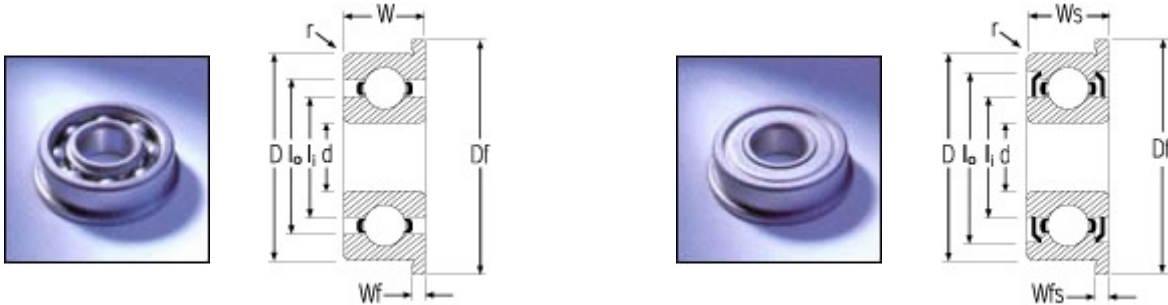
steel shields	Code rubber seals	Bore Diameter "d" (mm)	Outer Diameter "D" (mm)	Width "W" (mm)	Load Rating Cr (N)	Load Rating Cor (N)	Max. Speed (1000rpm)		Weight (g)
							Grease	Oil	
	/	1.5	4	2.0	112	33	100	120	0.10
	/	1.5	5	2.6	169	50	85	100	0.20
	/	1.5	6	3.0	330	99	75	90	0.31
	682 2RS	2.0	5	2.3	169	50	85	100	0.15
	MR52 2RS	2.0	5	2.5	169	50	85	100	0.14
	692 2RS	2.0	6	3.0	330	99	75	90	0.28
	MR62 2RS	2.0	6	2.5	330	99	75	90	0.28
	MR72 2RS	2.0	7	3.0	386	129	63	75	0.43
	602 2RS	2.0	7	3.5	386	129	60	71	0.50
	682X 2RS	2.5	6	2.6	209	74	71	80	0.20
	692X 2RS	2.5	7	3.5	386	129	63	75	0.40
	MR82X 2RS	2.5	8	3.0	558	180	60	67	0.52
	602X 2RS	2.5	8	4.0	552	177	60	71	0.61
	MR63 2RS	3.0	6	2.5	209	74	71	80	0.20
	683 2RS	3.0	7	3.0	311	112	63	75	0.32
	MR83 2RS	3.0	8	3.0	395	141	60	67	0.51
	693 2RS	3.0	8	4.0	558	180	60	67	0.60
	MR93 2RS	3.0	9	4.0	571	189	56	67	0.75
	603 2RS	3.0	9	5.0	571	189	56	67	0.84
	623 2RS	3.0	10	4.0	631	219	50	60	1.45
	633 2RS	3.0	13	5.0	1301	488	40	48	3.27
	MR74 2RS	4.0	7	2.5	255	108	60	67	0.25
	MR84 2RS	4.0	8	3.0	395	141	56	67	0.39
	684 2RS	4.0	9	4.0	641	227	53	63	0.65
	MR104 2RS	4.0	10	4.0	711	272	48	56	0.96
	694 2RS	4.0	11	4.0	957	350	48	56	1.69
	604 2RS	4.0	12	4.0	957	350	48	56	2.19
	624 2RS	4.0	13	5.0	1301	488	40	48	3.10
	634 2RS	4.0	16	5.0	1340	523	36	43	5.24
	MR85 2RS	5.0	8	2.5	218	90	53	63	0.25
	MR95 2RS	5.0	9	3.0	431	169	50	60	0.54

Miniature Bearing

MR105ZZ	MR105 2RS	5.0	10	4.0	431	169	50	60	0.91
MR115ZZ	MR115 2RS	5.0	11	4.0	716	282	45	53	1.60
685ZZ	685 2RS	5.0	11	5.0	716	282	45	53	1.16
695ZZ	695 2RS	5.0	13	4.0	1077	432	43	50	2.39
605ZZ	605 2RS	5.0	14	5.0	1329	507	40	50	3.46
625ZZ	625 2RS	5.0	16	5.0	1729	675	36	43	4.95
635ZZ	635 2RS	5.0	19	6.0	2336	896	32	40	8.50
MR106ZZ	MR106 2RS	6.0	10	3.0	496	218	45	53	0.55
MR126ZZ	MR126 2RS	6.0	12	4.0	716	295	43	50	1.25
686ZZ	686 2RS	6.0	13	5.0	1082	442	40	50	1.87
696ZZ	696 2RS	6.0	15	5.0	1340	523	40	45	3.85
606ZZ	606 2RS	6.0	17	6.0	2263	846	38	45	5.94
626ZZ	626 2RS	6.0	19	6.0	2336	896	32	40	8.12
636ZZ	636 2RS	6.0	22	7.0	3333	1423	30	36	13.90
MR117ZZ	MR117 2RS	7.0	11	3.0	455	202	43	50	0.59
MR137ZZ	MR137 2RS	7.0	13	4.0	541	276	40	48	1.52
687ZZ	687 2RS	7.0	14	5.0	1173	513	40	50	2.03
697ZZ	697 2RS	7.0	17	5.0	1605	719	36	43	5.26
607ZZ	607 2RS	7.0	19	6.0	2336	896	36	43	7.80
627ZZ	627 2RS	7.0	22	7.0	3287	1379	30	36	12.70
637ZZ	637 2RS	7.0	26	6.0	4563	1983	28	34	24.20
MR128ZZ	MR128 2RS	8.0	12	3.5	543	274	40	48	0.70
MR148ZZ	MR148 2RS	8.0	14	4.0	817	386	38	45	1.90
688ZZ	688 2RS	8.0	16	5.0	1252	592	36	43	3.11
698ZZ	698 2RS	8.0	19	6.0	2237	917	36	43	7.12
608ZZ	608 2RS	8.0	22	7.0	3293	1379	34	40	11.80
628ZZ	628 2RS	8.0	24	8.0	3333	1423	28	34	17.10
638ZZ	638 2RS	8.0	28	9.0	4563	1983	28	34	28.10
679ZZ	679 2RS	9.0	14	4.5	919	468	36	42	1.35
689ZZ	689 2RS	9.0	17	5.0	1327	668	36	43	3.41
699ZZ	699 2RS	9.0	20	6.0	2467	1081	34	40	8.38
609ZZ	609 2RS	9.0	24	7.0	3356	1444	32	38	14.70
629ZZ	629 2RS	9.0	26	8.0	4575	1983	28	34	19.00
639ZZ	639 2RS	9.0	30	10.0	4659	2080	24	30	36.20
6700ZZ	6700 2RS	10.0	15	4.0	0.855	0.435	15000	20000	14.00
6800ZZ	6800 2RS	10.0	19	5.0	1.7	0.84	37000	43000	50.00
6900ZZ	6900 2RS	10.0	22	6.0	2.7	1.25	34000	41000	10.00
6000ZZ	6000 2RS	10.0	26	8.0	4.55	1.95	31000	36000	19.00
6200ZZ	6200 2RS	10.0	30	9.0	5.1	2.4	24000	29000	32.00
6300ZZ	6300 2RS	10.0	35	11.0	8.1	3.45	22000	27000	53.00

Miniature Bearing

Flanged Miniature Ball Bearing-Open and Shielded Type



Shield / closure: Open Bearing, Z, ZZ, RS, 2RS, TT
Tolerance codes: ABEC-1, ABEC-3, ABEC-5, ABEC-7
Vibration level codes: V4, V3, V2, V1
Internal clearance codes: C2, C3, C4, C5
Material: AISI52100, AISI440C, AISI304, AISI316, Ceramic
Retainer: PTFE, Nylon, PEEK or Stainless Steel

Code	Bore Dia. "d" (mm)	Outer Dia. "D" (mm)	Flange Outer Diameter (Df)		Width "W" (mm)		Flange Width "Ws"/ "Wfs" (mm)		Load Rating Cr (N)	Load Rating Cor (N)	Max. Speed (1000rpm)	
			open	zz	open	zz	open	zz			Grease	Oil
F682zz	2.0	5	6.1	6.1	1.5	2.3	0.5	0.6	169	50	85	100
MF52zz	2.0	5	6.2	6.2	2.0	2.5	0.6	0.6	169	50	85	100
F692zz	2.0	6	7.5	7.5	2.3	3.0	0.6	0.8	330	99	75	90
MF62zz	2.0	6	7.2	7.2	2.5	2.5	0.6	-	330	99	75	90
MF72zz	2.0	7	8.2	8.2	2.8	3.0	0.6	0.6	386	129	63	75
F602zz	2.0	7	8.5	8.5	2.8	3.5	0.7	0.9	386	129	60	71
F682Xzz	2.5	6	7.1	7.1	1.8	2.6	0.5	0.8	209	74	71	80
F692Xzz	2.5	7	8.5	8.5	2.5	3.5	0.7	0.9	386	129	63	75
MF82X	2.5	8	9.2	9.2	2.5	-	0.6	-	558	180	60	67
F602Xzz	2.5	8	9.5	9.5	2.8	4.0	0.7	0.9	552	177	60	71
MF63zz	3.0	6	7.2	7.2	2.0	2.5	0.6	0.6	209	74	71	80
F683zz	3.0	7	8.1	8.1	2.0	3.0	0.5	0.8	311	112	63	75
MF83zz	3.0	8	9.2	9.2	2.5	3.0	0.6	-	395	141	60	67
F693zz	3.0	8	9.5	9.5	3.0	4.0	0.7	0.9	558	180	60	67
MF93zz	3.0	9	10.2	10.6	2.5	4.0	0.6	0.8	571	189	56	67
F603zz	3.0	9	10.5	10.5	3.0	5.0	0.7	-	571	189	56	67
F623zz	3.0	10	11.5	11.5	4.0	4.0	1.0	1.0	631	219	50	60
MF74zz	4.0	7	8.2	8.2	2.0	2.5	0.6	0.6	255	108	60	67
MF84zz	4.0	8	9.2	9.2	2.0	3.0	0.6	0.6	395	141	56	67
F684zz	4.0	9	10.3	10.3	2.5	4.0	0.6	1.0	641	227	53	63
MF104zz	4.0	10	11.2	11.6	3.0	4.0	0.6	0.8	711	272	48	56
F694zz	4.0	11	12.5	12.5	4.0	4.0	1.0	1.0	957	350	48	56
F604zz	4.0	12	13.5	13.5	4.0	4.0	1.0	1.0	957	350	48	56

Miniature Bearing

F624zz	4.0	13	15.0	15.0	5.0	5.0	1.0	1.0	1301	488	40	48
F634zz	4.0	16	18.0	18.0	5.0	5.0	1.0	1.0	1340	523	36	43
MF85zz	5.0	8	9.2	9.2	2.0	2.5	0.6	0.6	218	90	53	63
MF95zz	5.0	9	10.2	10.2	2.5	3.0	0.6	0.6	431	169	50	60
MF105zz	5.0	10	11.2	11.6	3.0	4.0	0.6	0.8	431	169	50	60
MF115zz	5.0	11	12.5	12.5	-	4.0	0.8	1.0	716	282	45	53
F685zz	5.0	11	12.5	12.5	3.0	5.0	0.8	1.0	716	282	45	53
F695zz	5.0	13	15.0	15.0	4.0	4.0	1.0	1.0	1077	432	43	50
F605zz	5.0	14	16.0	16.0	5.0	5.0	1.0	1.0	1329	507	40	50
F625zz	5.0	16	18.0	18.0	5.0	5.0	1.0	1.0	1729	675	36	43
F635zz	5.0	19	22.0	22.0	6.0	6.0	1.5	1.5	2336	896	32	40
MF106zz	6.0	10	11.2	11.2	2.5	3.0	0.6	0.6	496	218	45	53
MF126zz	6.0	12	13.2	13.6	3.0	4.0	0.6	0.8	716	295	43	50
F686zz	6.0	13	15.0	15.0	3.5	5.0	1.0	1.1	1082	442	40	50
F696zz	6.0	15	17.0	17.0	5.0	5.0	1.2	1.2	1340	523	40	45
F606zz	6.0	17	19.0	19.0	6.0	6.0	1.2	1.2	2263	846	38	45
F626zz	6.0	19	22.0	22.0	6.0	6.0	1.5	1.5	2336	896	32	40
MF117zz	7.0	11	12.2	12.2	2.5	3.0	0.6	0.6	455	202	43	50
MF137zz	7.0	13	14.2	14.6	3.0	4.0	0.6	0.8	541	276	40	48
F687zz	7.0	14	16.0	16.0	3.5	5.0	1.0	1.1	1173	513	40	50
F697zz	7.0	17	19.0	19.0	5.0	5.0	1.2	1.2	1605	719	36	43
F607zz	7.0	19	22.0	22.0	6.0	6.0	1.5	1.5	2336	896	36	43
F627zz	7.0	22	25.0	25.0	7.0	7.0	1.5	1.5	3287	1379	30	36
MF128zz	8.0	12	13.2	13.6	2.5	3.5	0.6	0.8	543	274	40	48
MF148zz	8.0	14	15.6	15.6	3.5	4.0	0.8	0.8	817	386	38	45
F688zz	8.0	16	18.0	18.0	4.0	5.0	1.0	1.1	1252	592	36	43
F698zz	8.0	19	22.0	22.0	6.0	6.0	1.5	1.5	2237	917	36	43
F608zz	8.0	22	25.0	25.0	7.0	7.0	1.5	1.5	3293	1379	34	40
F689zz	9.0	17	19.0	19.0	4.0	5.0	1.0	1.1	1327	668	36	43
F699zz	9.0	20	23.0	23.0	6.0	6.0	1.5	1.5	2467	1081	34	40
F6700zz	10.0	15	16.5	16.5	3.0	4.0	0.8	0.8	850	430	14	16
F6800zz	10.0	19	21.0	21.0	5.0	5.0	1.0	1.0	1700	800	35	42
F6900zz	10.0	22	25.0	25.0	6.0	6.0	1.5	1.5	2611	1223	31	40
F6701zz	12.0	18	19.5	19.5	4.0	4.0	0.8	0.8	922	512	12	14
F6801zz	12.0	21	23.0	23.0	5.0	5.0	0.8	1.0	1911	1041	33	39
F6901zz	12.0	24	26.5	26.5	6.0	6.0	1.0	1.5	2831	1411	31	36