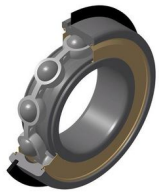
Technical data

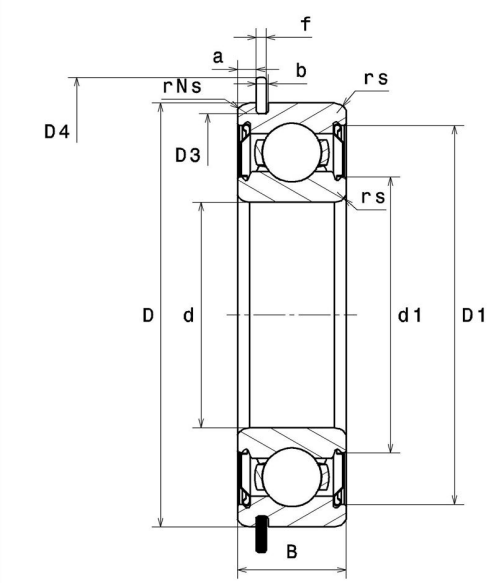
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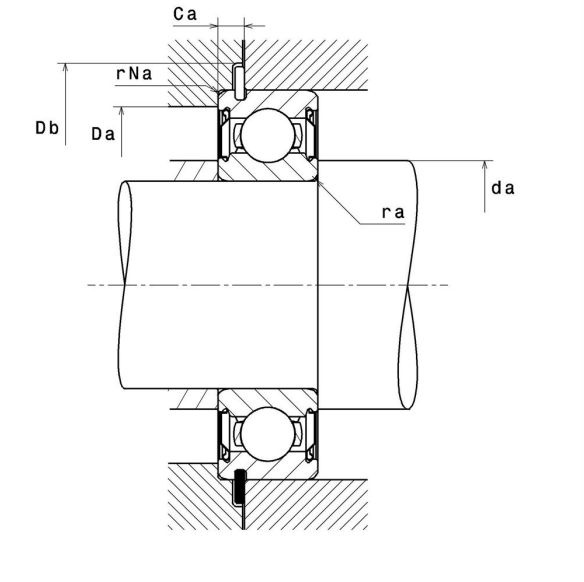
Single row deep groove ball bearings



Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, shields on both sides

Visual(s)





Product definition

d	30 mm
D	55 mm
B	13 mm
d1	38.2 mm
D1	49.5 mm
a min	1.88 mm
a max	2.08 mm
Ca min	2.9 mm
Ca max	3.2 mm
rs min	1 mm
rNs min	0.5 mm
D3 max	52.6 mm
b min	1.35 mm
b max	1.65 mm
r0 max	0.4 mm
D4 max	60.7 mm
f	1.07 mm
Snap ring reference	R55
Radial clearance class	CN
Mass	0.12 kg
Brand	SNR

Product performance

Dynamic load, C	13 kN
Static load, C0	8.3 kN
Fatigue limit load, Cu	0.38 kN
f0	14.8
Nref	13,000 Tr/min
Nlim	17,000 Tr/min
Min operating temperature, Tmin	-30 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.81 Hz
Characteristic outer ring frequency, BPF0	4.58 Hz
Characteristic inner ring frequency, BPFI	6.42 Hz

Abutment dimensions

da min	35 mm
da max	38.2 mm
Ce min	0 mm
Da max	50 mm
ra max	1 mm
rNa max	0.5 mm
Db min	61.5 mm

Calculation factors

Equivalent dynamic radial load

P = X.Fr + Y.Fa

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / Fr > e	
		X	Y	X	Y
0.172	0.19	1	0	0.56	2.3
0.345	0.22				1.99
0.689	0.26				1.71
1.03	0.28				1.55
1.38	0.3				1.45
2.07	0.34				1.31
3.45	0.38				1.15
5.17	0.42				1.04
6.89	0.44				1

Equivalent static radial load

Po = Xo.Fr + Yo.Fa

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement :

If Po <Fr, then use Po = Fr