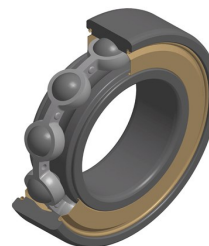


PDF technical sheet

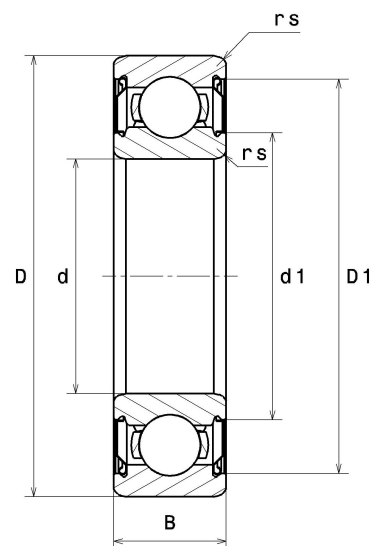
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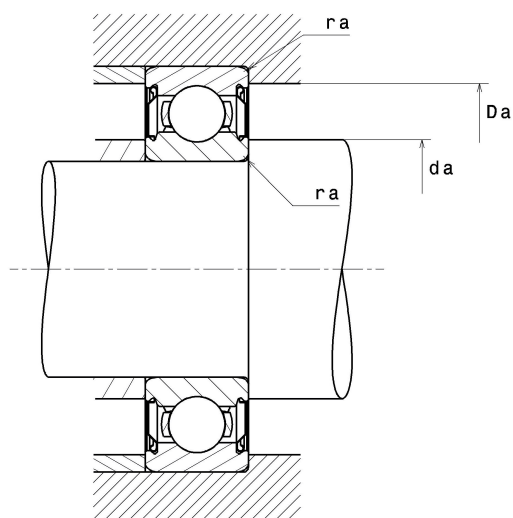
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, shields on both sides

Product definition	
d	55 mm
D	100 mm
B	21 mm
d1	67.10 mm
D1	88.60 mm
rs min	1.50 mm
Radial clearance class	C3
Mass	0.60 kg
Brand	SNR



Product performance	
Dynamic load, C	42.70 kN
Static load, C0	29.30 kN
Fatigue limit load, Cu	1.33 kN
f0	14.3
Nref	7,500 Tr/min
Nlim	8,600 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.41 Hz
Characteristic rolling element frequency, BSF	5.24 Hz
Characteristic outer ring frequency, BPF0	4.08 Hz
Characteristic inner ring frequency, BPF1	5.92 Hz



Abutment dimensions

da min	63 mm
da max	67.10 mm
Da max	92 mm
ra max	1.50 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot F_r + Y \cdot F_a$$

$\frac{f_0 F_a}{C_0}$	e	$F_a / F_r \leq e$		$F_a / F_r > e$	
		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

$$P_0 = X_0 \cdot F_r + Y_0 \cdot F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < F_r$, then use $P_0 = F_r$