

PDF technical sheet

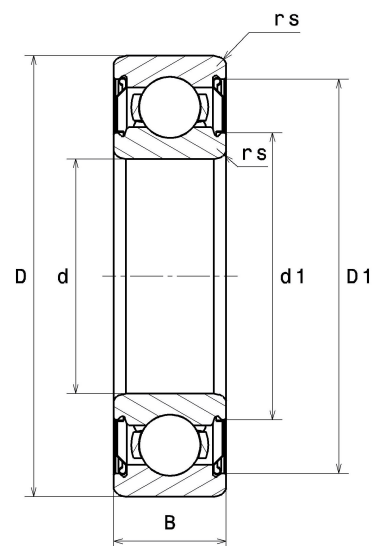
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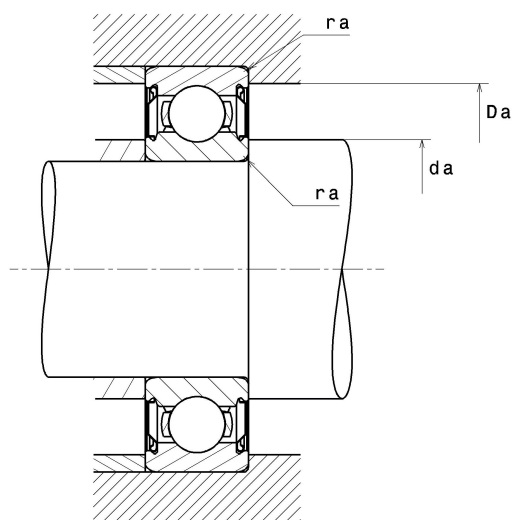
Single row deep groove ball bearings

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

Product definition	
d	6 mm
D	19 mm
B	6 mm
d1	9 mm
D1	16.70 mm
rs min	0.30 mm
Radial clearance class	CN
Mass	0.01 kg
Brand	SNR



Product performance	
Dynamic load, C	2.31 kN
Static load, C0	0.90 kN
Fatigue limit load, Cu	0.06 kN
f0	10.5
Nref	33,000 Tr/min
Nlim	46,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.37 Hz
Characteristic rolling element frequency, BSF	3.45 Hz
Characteristic outer ring frequency, BPF0	2.56 Hz
Characteristic inner ring frequency, BPF1	4.44 Hz



Abutment dimensions

da min	8 mm
da max	9 mm
Da max	17 mm
ra max	0.30 mm

Calculation factors

Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0.F_r + Y_0.F_a$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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