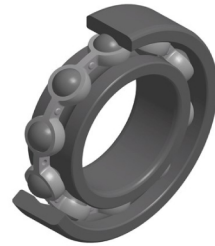


PDF technical sheet

6305.F600

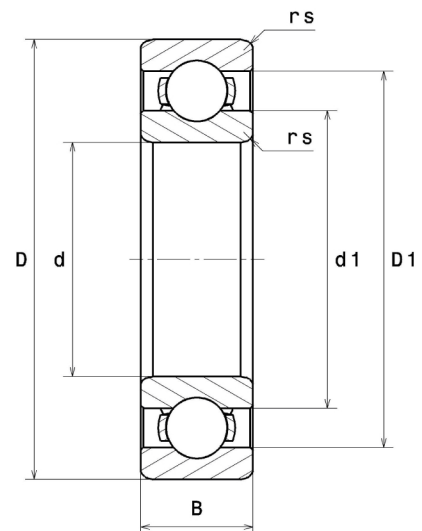


Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, open, applications upto 350 °C.

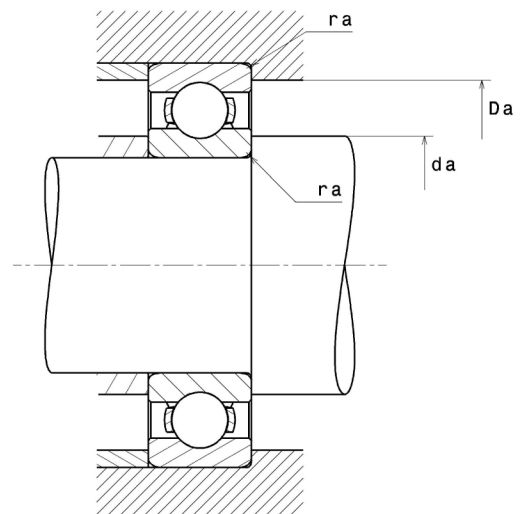
Product definition

d	25 mm
D	62 mm
B	17 mm
d1	33.90 mm
D1	52.70 mm
rs min	1.10 mm
Radial clearance class	> C5
Mass	0.24 kg
Brand	SNR



Product performance

Dynamic load, C	0.01 kN
Static load, C0	0.01 kN
Fatigue limit load, Cu	0.00 kN
f0	12.2
Nlim	50 rpm
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	350 °C
Characteristic cage frequency, FTF	0.36 Hz
Characteristic rolling element frequency, BSF	3.38 Hz
Characteristic outer ring frequency, BPF0	2.54 Hz
Characteristic inner ring frequency, BPFI	4.46 Hz



Abutment dimensions

da min	31.50 mm
Da max	55.50 mm
ra max	1 mm

Calculation factors

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	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

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

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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