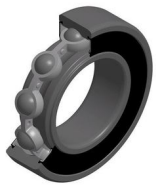
Technical data

6209.FT150

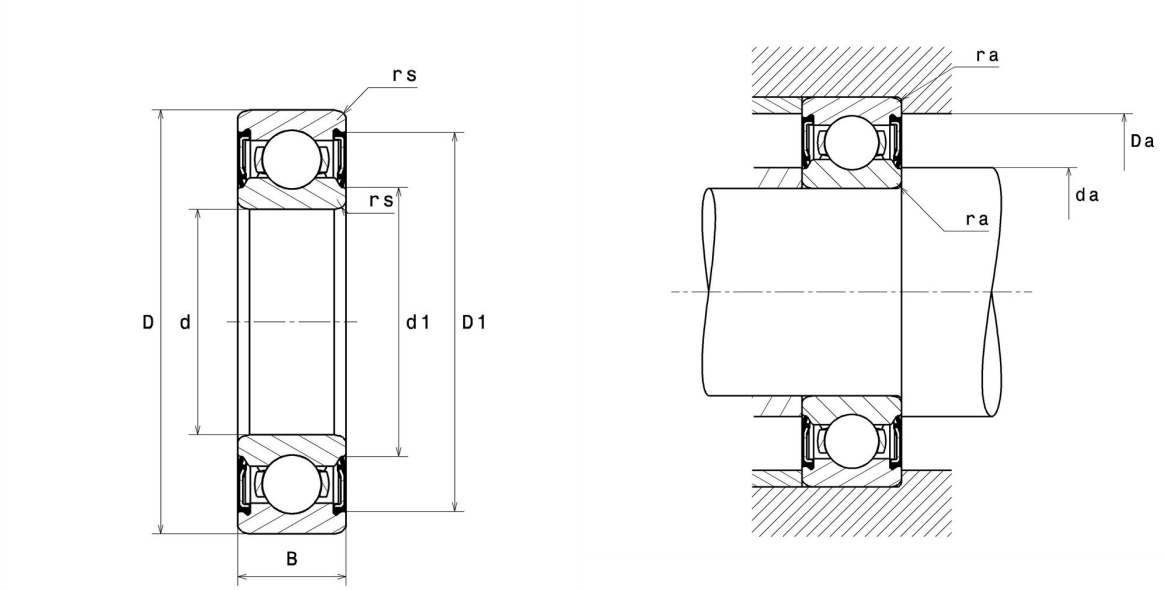
Single row deep groove ball bearings



TOPLINE deep groove ball bearing, radial contact, pressed steel cage, contact seals on both sides, applications up to 150°C.

ULTAGE

Visual(s)



Product definition

d	45 mm
D	85 mm
B	19 mm
d1	54.5 mm
D1	75.6 mm
a min	1 mm
rs min	1.1 mm
rNs min	1.1 mm
Snap ring reference	0
Associated sleeve reference	0006.0
Radial clearance class	C3
Mass	0.4 kg
Brand	SNR

Product performance

Dynamic load, C	0.93 kN
Static load, C0	20.4 kN
Fatigue limit load, Cu	0.93 kN
f0	14.1
Nref	14 Tr/min
Nlim	5,300 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.4 Hz
Characteristic rolling element frequency, BSF	4.92 Hz
Characteristic outer ring frequency, BPF0	3.62 Hz
Characteristic inner ring frequency, BPFI	5.38 Hz

Abutment dimensions

da min	51.5 mm
da max	54.5 mm
db min	5,300 mm
Ce min	0 mm
Da max	78.5 mm
ra max	1 mm
rNa max	54.5 mm
Db min	51.5 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