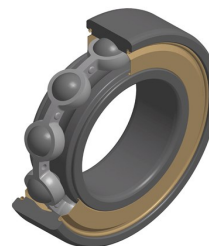


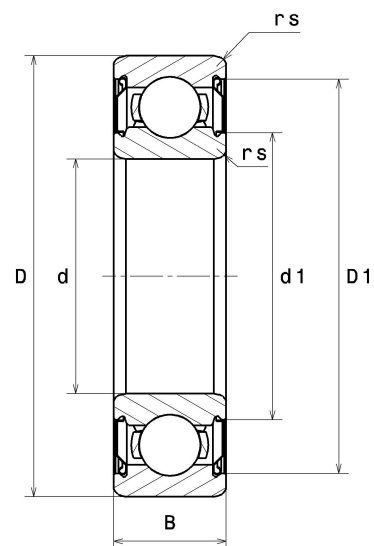
PDF technical sheet 6307FT150ZZ



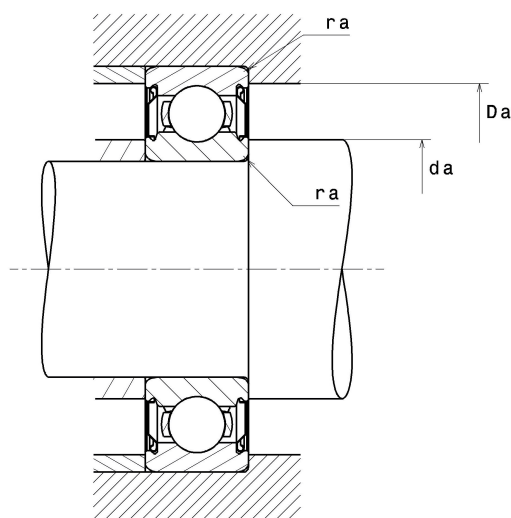
Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed steel cage, shields on both sides, applications upto 150 °C.

Product definition	
d	35 mm
D	80 mm
B	21 mm
d1	46.20 mm
D1	70.10 mm
rs min	1.50 mm
Radial clearance class	C3
Mass	0.45 kg
Brand	SNR



Product performance	
Dynamic load, C	33 kN
Static load, C0	19.20 kN
Fatigue limit load, Cu	1.13 kN
f0	13.2
Nref	9,900 Tr/min
Nlim	12,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	150 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	4.07 Hz
Characteristic outer ring frequency, BPF0	3.07 Hz
Characteristic inner ring frequency, BPF1	4.93 Hz



Abutment dimensions

da min	43 mm
da max	46.20 mm
Da max	72 mm
ra max	1.50 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

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