

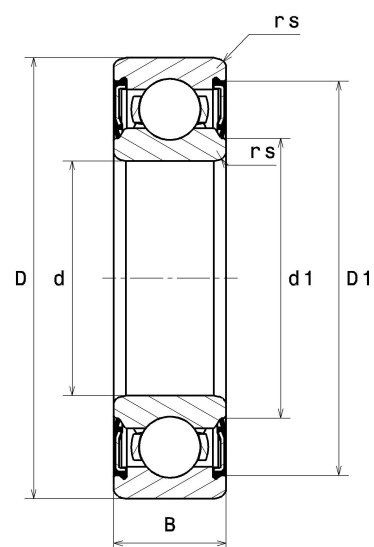
PDF technical sheet 6205.FT150



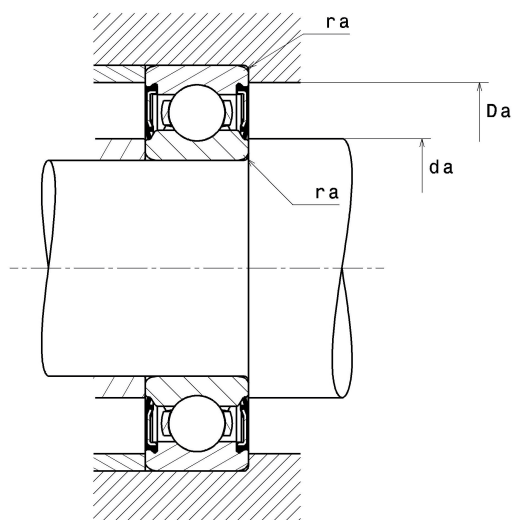
Single row deep groove ball bearings

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

Product definition	
d	0.9843 "
D	2.0472 "
B	0.5906 "
d1	1.2520 "
D1	1.9370 "
rs min	0.0394 "
Radial clearance class	C3
Mass	0.45 oz
Brand	SNR



Product performance	
Dynamic load, C	13.80 kN
Static load, C0	7.90 kN
Fatigue limit load, Cu	0.36 kN
f0	13.9
Nlim	9,000 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	302 °C
Characteristic cage frequency, FTF	0.40 Hz
Characteristic rolling element frequency, BSF	4.72 Hz
Characteristic outer ring frequency, BPF0	3.59 Hz
Characteristic inner ring frequency, BPFI	5.42 Hz



Abutment dimensions

da min	1.1811 "
da max	1.2520 "
Da max	1.8504 "
ra max	0.0394 "

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 $P_0 = F_r$