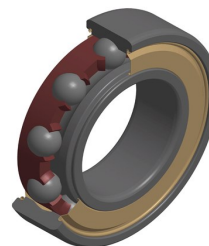


PDF technical sheet 6204HVZZ

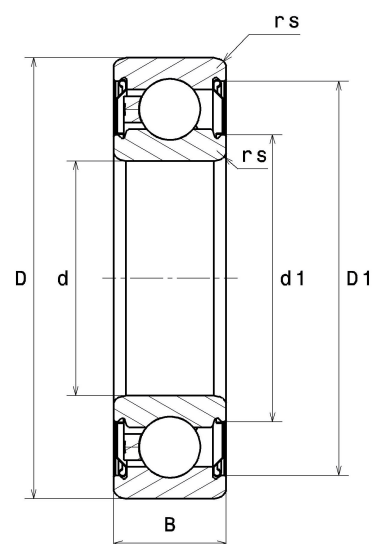


Single row deep groove ball bearings

TOPLINE deep groove ball bearing, radial contact, pressed polyamide cage, shields on both sides, for high speed applications.

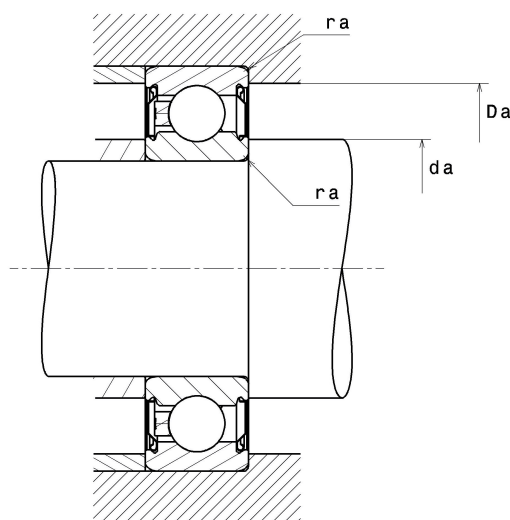
Product definition

d	0.7874 "
D	1.8504 "
B	0.5512 "
d1	1.0197 "
D1	1.6299 "
rs min	0.0394 "
Radial clearance class	C3
Mass	0.38 oz
Brand	SNR



Product performance

Dynamic load, C	12.60 kN
Static load, C0	6.60 kN
Fatigue limit load, Cu	0.30 kN
f0	13.1
Nref	16,000 RPM
Nlim	28,000 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	176 °C
Characteristic cage frequency, FTF	0.38 Hz
Characteristic rolling element frequency, BSF	3.98 Hz
Characteristic outer ring frequency, BPF0	3.05 Hz
Characteristic inner ring frequency, BPF1	4.95 Hz



Abutment dimensions

da min	0.9843 "
da max	1.0197 "
Da max	1.6535 "
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 $P_0 = F_r$