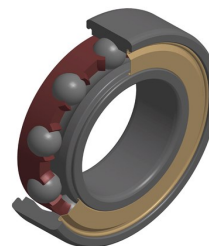


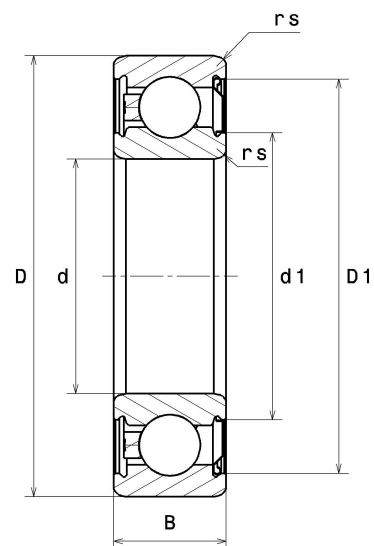
PDF technical sheet 6302HVZ



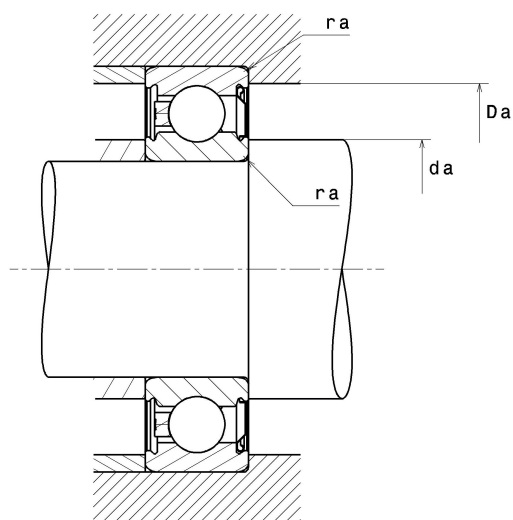
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, polyamide cage, shield on one side

Product definition	
d	0.5906 "
D	1.6535 "
B	0.5118 "
d1	0.9134 "
D1	1.4213 "
rs min	0.0394 "
Radial clearance class	C3
Mass	0.29 oz
Brand	SNR



Product performance	
Dynamic load, C	11.20 kN
Static load, C0	5.30 kN
Fatigue limit load, Cu	0.24 kN
f0	12.1
Nref	
Nlim	32,000 RPM
Min operating temperature, Tmin	-4 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.36 Hz
Characteristic rolling element frequency, BSF	3.31 Hz
Characteristic outer ring frequency, BPF0	2.53 Hz
Characteristic inner ring frequency, BPF1	4.48 Hz



Abutment dimensions	
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 $P_0 = F_r$