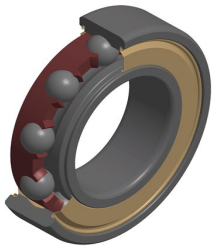
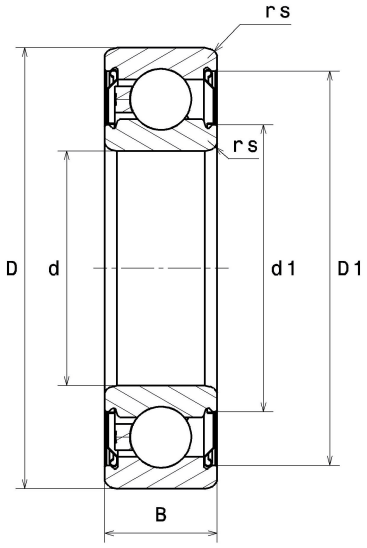
PDF technical sheet
6006HVZZ



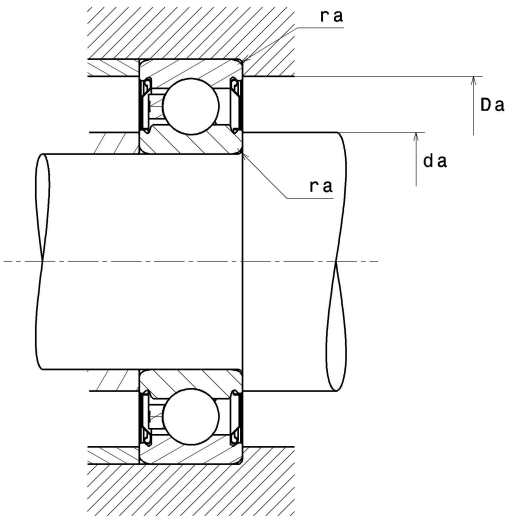
Single row deep groove ball bearings

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

Product definition	
d	30 mm
D	55 mm
B	13 mm
d1	38.20 mm
D1	49.50 mm
rs min	1 mm
Radial clearance class	C3
Mass	0.12 kg
Brand	SNR



Product performance	
Dynamic load, C	13 kN
Static load, C0	8.30 kN
Fatigue limit load, Cu	0.38 kN
f0	14.8
Nref	13,000 Tr/min
Nlim	24,000 Tr/min
Min operating temperature, Tmin	−20 °C
Max operating temperature, Tmax	80 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	5.81 Hz
Characteristic outer ring frequency, BPF0	4.58 Hz
Characteristic inner ring frequency, BPFI	6.42 Hz



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Code APE 2815 Z – Code NACE 28.15

Abutment dimensions	
da min	35 mm
da max	38.20 mm
Da max	50 mm
ra max	1 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