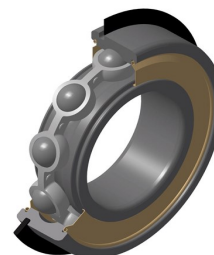
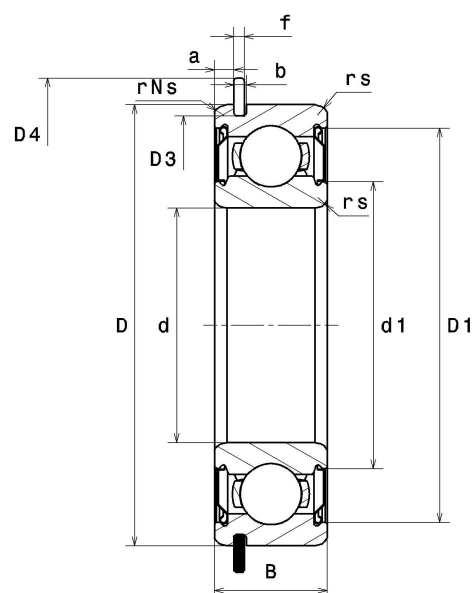


PDF technical sheet 6201.NRZZ

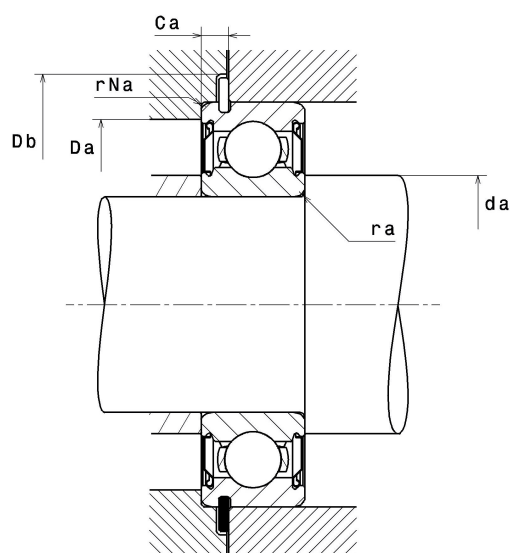


Single row deep groove ball bearings

Product definition	
d	12 mm
D	32 mm
B	10 mm
d1	18.30 mm
D1	27.90 mm
a min	1.90 mm
a max	2.06 mm
Ca min	2.92 mm
Ca max	3.18 mm
rs min	0.60 mm
rNs min	0.50 mm
D3 max	30.15 mm
b min	1.35 mm
b max	1.65 mm
r0 max	0.40 mm
D4 max	36.70 mm
f	1.07 mm
Snap ring reference	R32
Radial clearance class	CN
Mass	0.04 kg
Brand	SNR



Product performance	
Dynamic load, C	6.80 kN
Static load, C0	3.10 kN
Fatigue limit load, Cu	0.14 kN
f0	12.2
Nref	22,000 Tr/min
Nlim	31,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.36 Hz
Characteristic rolling element frequency, BSF	3.39 Hz
Characteristic outer ring frequency, BPF0	2.55 Hz
Characteristic inner ring frequency, BPF1	4.46 Hz



Abutment dimensions

da min	16 mm
da max	18.30 mm
Da max	28 mm
ra max	0.60 mm
rNa max	0.50 mm
Db min	37.50 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 $P_0 = Fr$