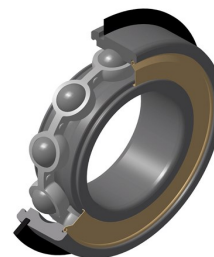
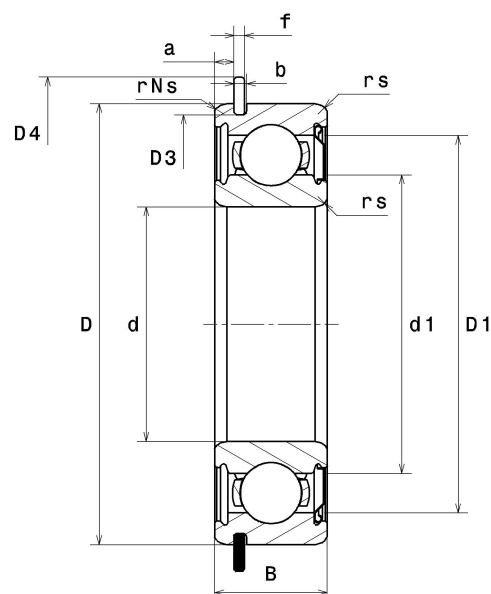


PDF technical sheet 6306ZNR

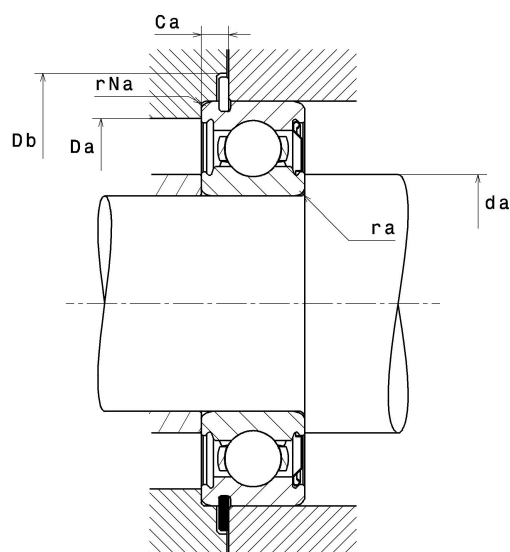


Single row deep groove ball bearings

Product definition	
d	30 mm
D	72 mm
B	19 mm
a min	3.07 mm
a max	3.28 mm
Ca min	4.67 mm
Ca max	4.98 mm
rs min	1.10 mm
rNs min	0.50 mm
D3 max	68.81 mm
b min	1.90 mm
b max	2.20 mm
r0 max	0.60 mm
D4 max	78.60 mm
f	1.70 mm
Snap ring reference	R72
Radial clearance class	CN
Mass	0.36 kg
Brand	NTN



Product performance	
Dynamic load, C	26.70 kN
Static load, C0	15 kN
Fatigue limit load, Cu	0.68 kN
f0	13.3
Nlim (oil)	12,000 Tr/min
Nlim (grease)	10,000 Tr/min
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.14 Hz
Characteristic outer ring frequency, BPF0	3.08 Hz
Characteristic inner ring frequency, BPF1	4.92 Hz



Abutment dimensions

da min	36.50 mm
Da max	65.50 mm
ra max	1 mm
rNa max	0.50 mm
Db min	80 mm

Calculation factors

Equivalent dynamic radial load

$$P = X \cdot Fr + Y \cdot Fa$$

$\frac{f_0 F_a}{C_0}$	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

$$P_0 = X_0 \cdot Fr + Y_0 \cdot Fa$$

X_0	Y_0
0.6	0.5

For single or DT bearing arrangement:

If $P_0 < Fr$, then use $P_0 = Fr$