

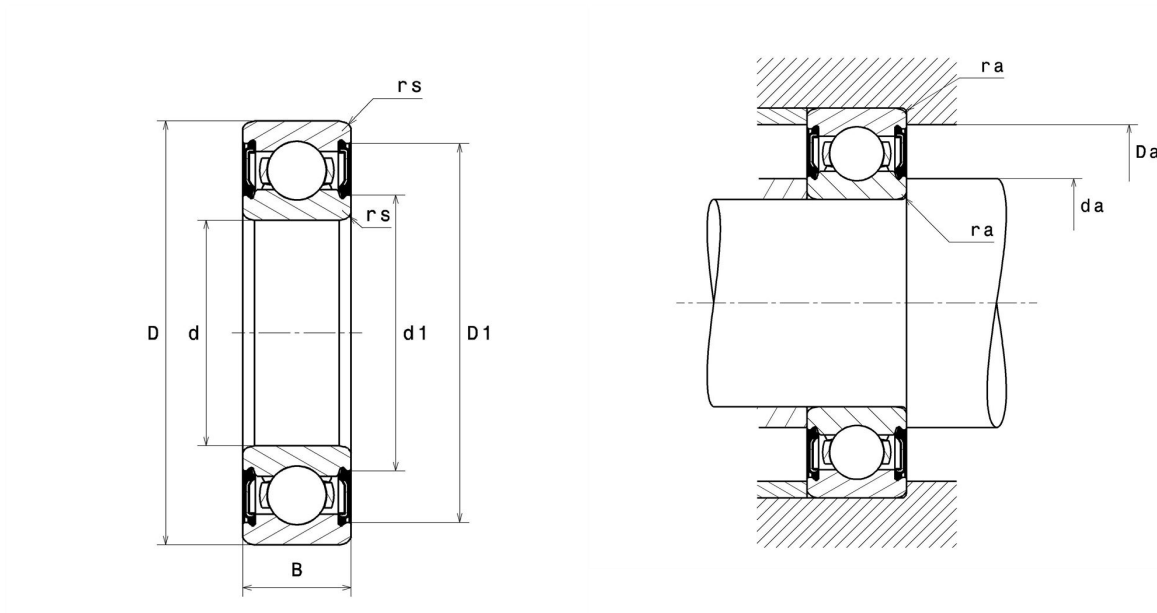
Technical data

6806JRLB/5K

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, non-contact seals on both sides

Visual(s)



Product definition

d	30 mm
D	42 mm
B	7 mm
rs min	0.3 mm
Radial clearance class	CN
Mass	0.03 kg
Brand	NTN

Product performance

Dynamic load, C	4.7 kN
Static load, C₀	3.65 kN
Fatigue limit load, C_u	0.17 kN
f₀	16.5
N_{lim} (grease)	15,000 Tr/min
Min operating temperature, T_{min}	-25 °C
Max operating temperature, T_{max}	110 °C
Characteristic cage frequency, FTF	0.45 Hz
Characteristic rolling element frequency, BSF	10.19 Hz
Characteristic outer ring frequency, BPF₀	8.12 Hz
Characteristic inner ring frequency, BPF_i	9.88 Hz

Abutment dimensions

da min	32 mm
da max	33 mm
Da max	40 mm
ra max	0.3 mm

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 ≤ 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 P₀ < F_r, then use P₀ = F_r