

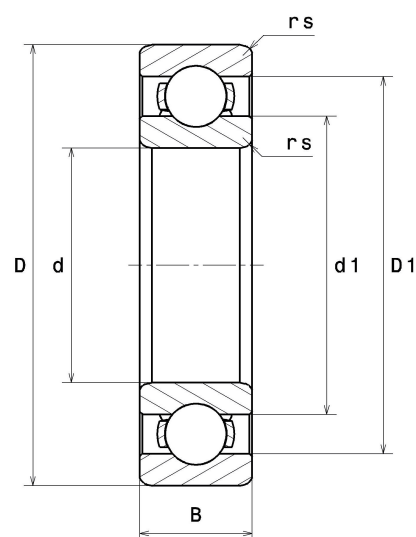
PDF technical sheet 61807



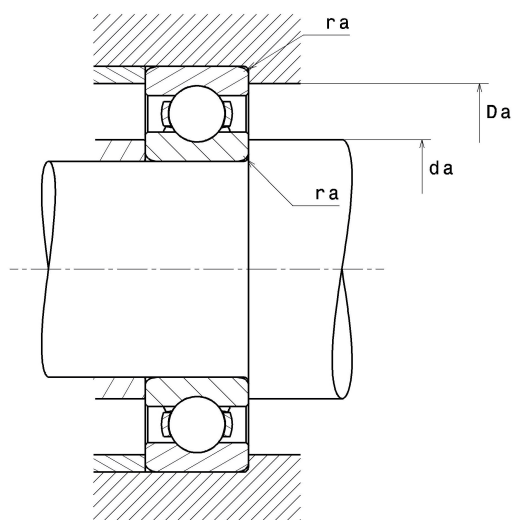
Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, open

Product definition	
d	1.3780 "
D	1.8504 "
B	0.2756 "
d1	1.5197 "
D1	1.7087 "
rs min	0.0118 "
Radial clearance class	CN
Mass	0.10 oz
Brand	NTN



Product performance	
Dynamic load, C	4.75 kN
Static load, C0	3.90 kN
Fatigue limit load, Cu	0.18 kN
f0	16.7
Nref	9,600 RPM
Nlim	22,000 RPM
Min operating temperature, Tmin	-40 °C
Max operating temperature, Tmax	248 °C
Characteristic cage frequency, FTF	0.46 Hz
Characteristic rolling element frequency, BSF	11.63 Hz
Characteristic outer ring frequency, BPF0	8.69 Hz
Characteristic inner ring frequency, BPF1	10.31 Hz



Abutment dimensions

da min	1.4567 "
Da max	1.7717 "
ra max	0.0118 "

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 $P_0 = F_r$