

PDF technical sheet

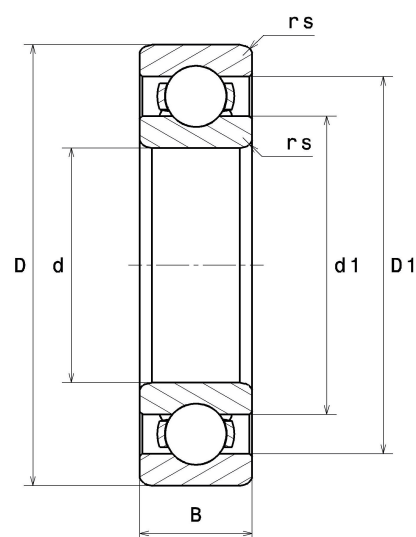
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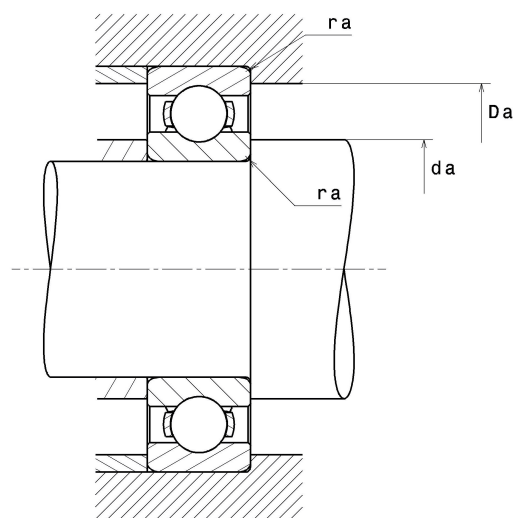
Single row deep groove ball bearings

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

Product definition	
d	5.9055 "
D	10.6299 "
B	1.7717 "
rs min	0.1181 "
Radial clearance class	C3
Mass	33.19 oz
Brand	NTN



Product performance	
Dynamic load, C	176 kN
Static load, C0	168 kN
Fatigue limit load, Cu	5.30 kN
f0	15.1
Nlim (oil)	2,700 RPM
Nlim (grease)	2,300 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.42 Hz
Characteristic rolling element frequency, BSF	6.46 Hz
Characteristic outer ring frequency, BPF0	4.67 Hz
Characteristic inner ring frequency, BPF1	6.33 Hz



Abutment dimensions

da min	6.4173 "
Da max	10.1181 "
ra max	0.0984 "

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 $P_0 = F_r$