

PDF technical sheet 6315L1C3P6

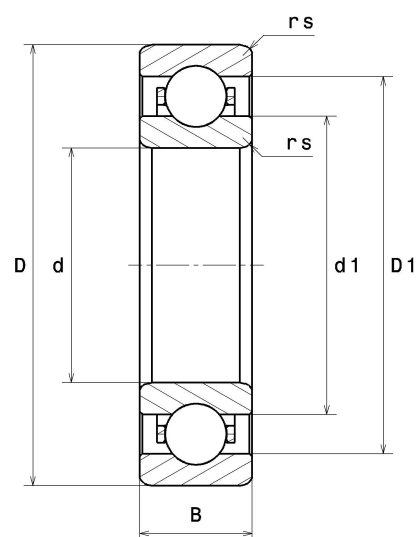


Single row deep groove ball bearings

Deep groove ball bearing, radial contact, machined cage, open

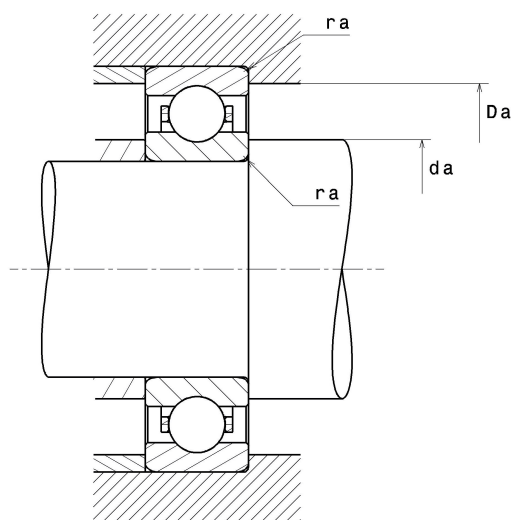
Product definition

d	2.9528 "
D	6.2992 "
B	1.4567 "
rs min	0.0827 "
Radial clearance class	C3
Mass	10.65 oz
Brand	NTN



Product performance

Dynamic load, C	113 kN
Static load, C0	77 kN
Fatigue limit load, Cu	3.25 kN
f0	13.2
Nlim (oil)	5,000 RPM
Nlim (grease)	4,300 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.39 Hz
Characteristic rolling element frequency, BSF	4.12 Hz
Characteristic outer ring frequency, BPF0	3.08 Hz
Characteristic inner ring frequency, BPF1	4.92 Hz



Abutment dimensions

da min	3.3858 "
Da max	5.8661 "
ra max	0.0787 "

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 $P_0 = F_r$