

PDF technical sheet 6036L1C4

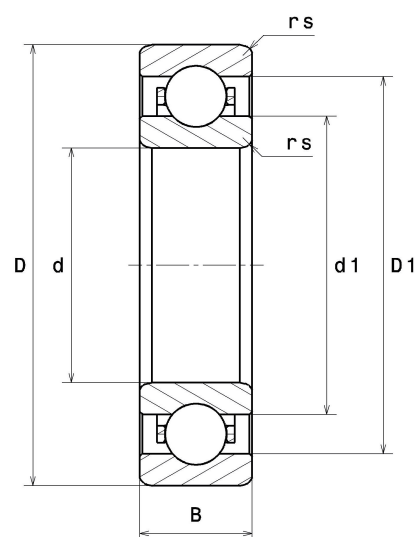


Single row deep groove ball bearings

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

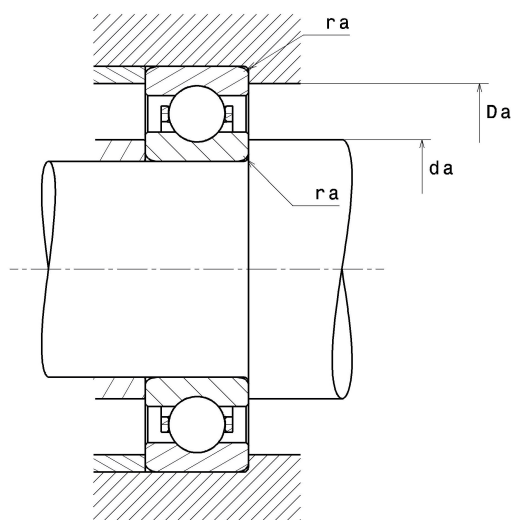
Product definition

d	7.0866 "
D	11.0236 "
B	1.8110 "
rs min	0.0827 "
Radial clearance class	C4
Mass	31.04 oz
Brand	NTN



Product performance

Dynamic load, C	189 kN
Static load, C0	199 kN
Fatigue limit load, Cu	6 kN
f0	15.6
Nlim (oil)	2,700 RPM
Nlim (grease)	2,300 RPM
Min operating temperature, Tmin	-76 °C
Characteristic cage frequency, FTF	0.43 Hz
Characteristic rolling element frequency, BSF	7.49 Hz
Characteristic outer ring frequency, BPF0	6.08 Hz
Characteristic inner ring frequency, BPF1	7.92 Hz



Abutment dimensions

da min	7.5197 "
Da max	10.5906 "
ra max	0.0787 "

Calculation factors

Equivalent dynamic radial load

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

$\frac{f_0 F_a}{C_0}$	e	$F_a / Fr \leq e$		$F_a / Fr > e$	
		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 $P_0 = Fr$