

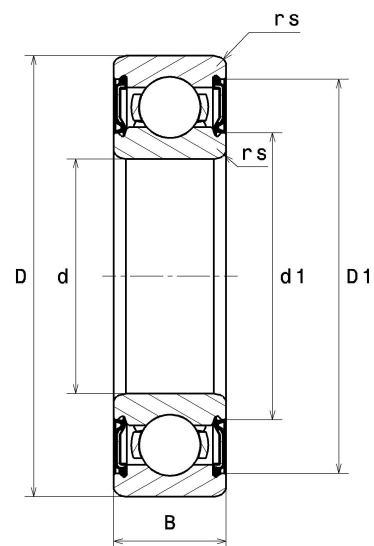
PDF technical sheet 6818LLU/2AS



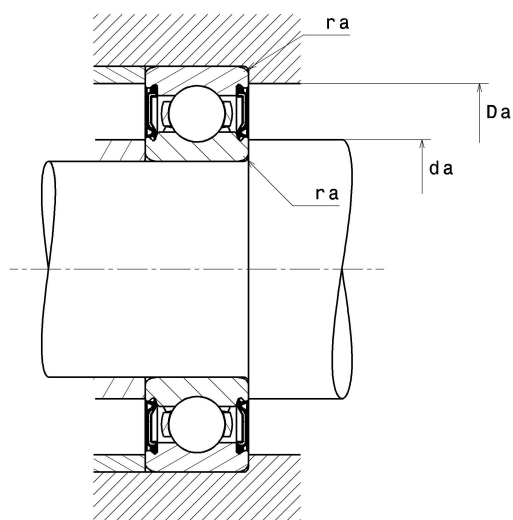
Single row deep groove ball bearings

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

Product definition	
d	3.5433 "
D	4.5276 "
B	0.5118 "
rs min	0.0394 "
Radial clearance class	CN
Mass	1.01 oz
Brand	NTN



Product performance	
Dynamic load, C	19 kN
Static load, C0	19.70 kN
Fatigue limit load, Cu	0.88 kN
f0	16.1
Nlim (grease)	3,000 RPM
Min operating temperature, Tmin	-13 °C
Max operating temperature, Tmax	230 °C
Characteristic cage frequency, FTF	0.47 Hz
Characteristic rolling element frequency, BSF	14.28 Hz
Characteristic outer ring frequency, BPF0	11.16 Hz
Characteristic inner ring frequency, BPF1	12.84 Hz



Abutment dimensions

da min	3.7402 "
da max	3.7795 "
Da max	4.3307 "
ra max	0.0394 "

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 $P_0 = F_r$