



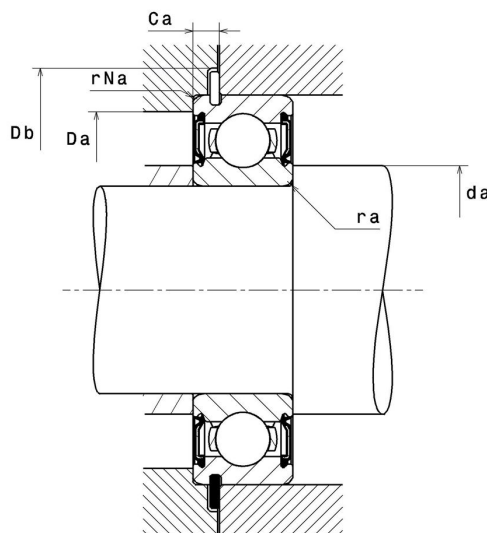
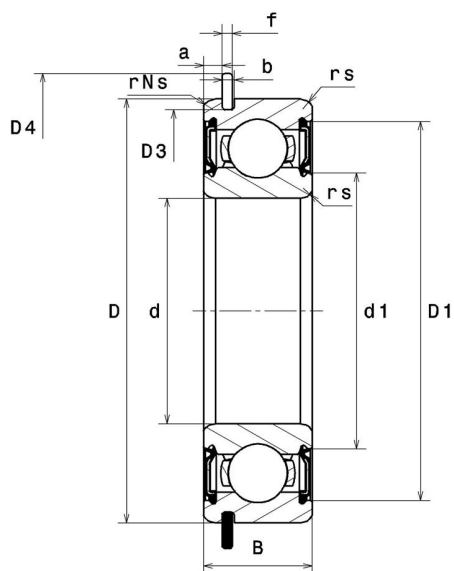
## Technical datasheet

### 6307LLUNR/2AS

Single row deep groove ball bearings

Deep groove ball bearing, radial contact, pressed steel cage, snap ring & groove on outer diameter, contact seals on both sides

#### Visual(s)



#### Product definition

<b>d</b>	35 mm
<b>D</b>	80 mm
<b>B</b>	21 mm
<b>a min</b>	3.07 mm
<b>a max</b>	3.28 mm
<b>Ca min</b>	4.67 mm
<b>Ca max</b>	4.98 mm
<b>rs min</b>	1.5 mm
<b>rNs min</b>	0.5 mm
<b>D3 max</b>	76.81 mm
<b>b min</b>	1.9 mm
<b>b max</b>	2.2 mm
<b>r0 max</b>	0.6 mm
<b>D4 max</b>	86.6 mm
<b>f</b>	1.7 mm
<b>Snap ring reference</b>	R80
<b>Radial clearance class</b>	CN
<b>Mass</b>	0.46 kg
<b>Brand</b>	NTN

## Product performance

<b>Dynamic load, C</b>	33.5 kN
<b>Static load, C0</b>	19.1 kN
<b>Fatigue limit load, Cu</b>	0.87 kN
<b>f0</b>	13.1
<b>Nlim (grease)</b>	6,000 rpm
<b>Min operating temperature, Tmin</b>	-25 °C
<b>Max operating temperature, Tmax</b>	110 °C
<b>Characteristic cage frequency, FTF</b>	0.38 Hz
<b>Characteristic rolling element frequency, BSF</b>	4.03 Hz
<b>Characteristic outer ring frequency, BPF0</b>	3.06 Hz
<b>Characteristic inner ring frequency, BPI</b>	4.94 Hz

## Abutment dimensions

<b>da min</b>	43 mm
<b>da max</b>	47 mm
<b>Da max</b>	72 mm
<b>ra max</b>	1.5 mm
<b>rNa max</b>	0.5 mm
<b>Db min</b>	88 mm

## Calculation factors

### Equivalent dynamic radial load

$$P = X.F_r + Y.F_a$$

$\frac{f_0 F_a}{C_0}$	e	Fa / Fr ≤ e		Fa / 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

$$P_0 = X_0.F_r + Y_0.F_a$$

X <sub>0</sub>	Y <sub>0</sub>
0.6	0.5

For single or DT bearing arrangement :

If  $P_0 < F_r$ , then use  $P_0 = F_r$