



# 6307 NR

- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

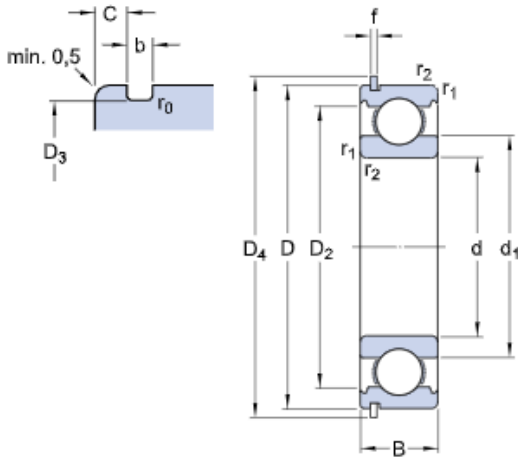
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

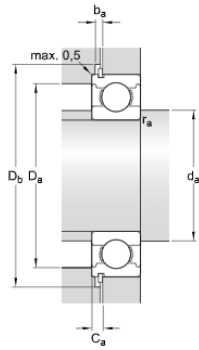


### DIMENSIONS

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
d1	≈49.56 mm	Shoulder diameter
D2	≈69.2 mm	Recess diameter
D3	76.81 mm	Diameter of snap ring groove
D4	86.6 mm	Outside diameter of snap ring
b	1.9 mm	Width of snap ring groove
C	3.28 mm	Distance outer ring from side face to snap ring groove
f	1.7 mm	Width of snap ring
r0	max.0.6 mm	Bottom radius of snap ring groove
r1,2	min.1.5 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

da	min.44 mm	Diameter of shaft abutment
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Da	max.71 mm	Diameter of housing abutment
Db	min.88 mm	Diameter of snap ring recess in the housing
ba	min.2.2 mm	Width of snap ring recess in the housing
Ca	max.4.98 mm	Distance from outer ring side face to snap ring back face
ra	max.1.5 mm	Radius of shaft or housing fillet

## CALCULATION DATA

Basic dynamic load rating	C	35.1 kN
Basic static load rating	$C_0$	19 kN
Fatigue load limit	$P_u$	0.82 kN
Reference speed		19 000 r/min
Limiting speed		12 000 r/min
Minimum load factor	$k_r$	0.03
Calculation factor	$f_0$	13

## MASS

Mass bearing	0.47 kg
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## INCLUDED PRODUCTS

Snap ring	SP 80
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## TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	P6

## More information

Product details	Engineering information	Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">Bearing Select</a>
<a href="#">Stainless steel deep groove ball bearings</a>	<a href="#">General bearing knowledge</a>	<a href="#">SimPro Quick</a>
<a href="#">Single row deep groove ball bearings with filling slots</a>	<a href="#">Bearing selection process</a>	<a href="#">Engineering Calculator</a>
<a href="#">Double row deep groove ball bearings</a>	<a href="#">Bearing interfaces</a>	<a href="#">LubeSelect for SKF greases</a>
<a href="#">Bearing data</a>	<a href="#">Seat tolerances for standard conditions</a>	<a href="#">Heater selection tool</a>
<a href="#">Loads</a>	<a href="#">Selecting internal clearance</a>	<a href="#">Rolling bearings mounting and dismounting instructions</a>
<a href="#">Temperature limits</a>	<a href="#">Lubrication</a>	
<a href="#">Permissible speed</a>	<a href="#">Sealing, mounting and dismounting</a>	
<a href="#">Designation system</a>	<a href="#">Bearing failure and how to prevent it</a>	

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