



Image may differ from product. See technical specification for details.

6208 NR

Deep groove ball bearing with snap ring

Single row deep groove ball bearings with a snap ring groove are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The snap ring, fitted in an annular groove in the outer ring, facilitates axial location of the bearings within their housings.

- Snap ring facilitates axial location within housing
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	80 mm
Width	18 mm

Performance

Basic dynamic load rating	32.5 kN
Basic static load rating	19 kN
Reference speed	18 000 r/min
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

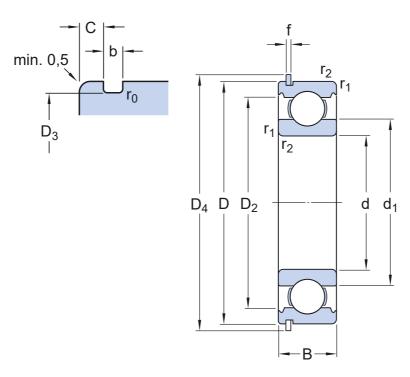
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Snap ring (fitted)
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

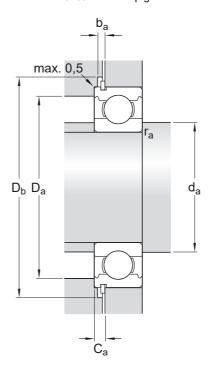
Product net weight	0.36 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
В	18 mm	Width
d_1	≈ 52.6 mm	Shoulder diameter
D ₂	≈ 69.8 mm	Recess diameter
D ₃	76.81 mm	Diameter of snap ring groove
D ₄	86.6 mm	Outside diameter of snap ring
b	1.9 mm	Width of snap ring groove
С	3.28 mm	Distance from outer ring side face to snap ring groove
f	1.7 mm	Width of snap ring
ro	max. 0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions

da	min. 47 mm	Diameter of shaft abutment
Da	max. 73 mm	Diameter of housing abutment
D_b	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 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	32.5 kN
Basic static load rating	C ₀	19 kN
Fatigue load limit	P _u	0.8 kN
Reference speed		18 000 r/min
Limiting speed		11 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f_0	14

Included products

Snap ring SP 80

Tolerances and clearances

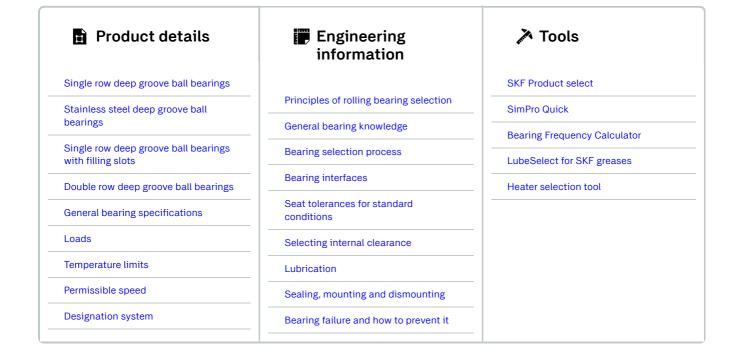
GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information





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