



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

6208-2ZNR

Deep groove ball bearing with snap ring and integral sealing

Single row deep groove ball bearing, with snap ring groove and seals or shields on one or both sides, 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 other

bearing types. The snap ring, fitted in an annular groove in the outer ring, facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Snap ring facilitates axial location within housing
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

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	9 000 r/min
SKF performance class	SKF Explorer

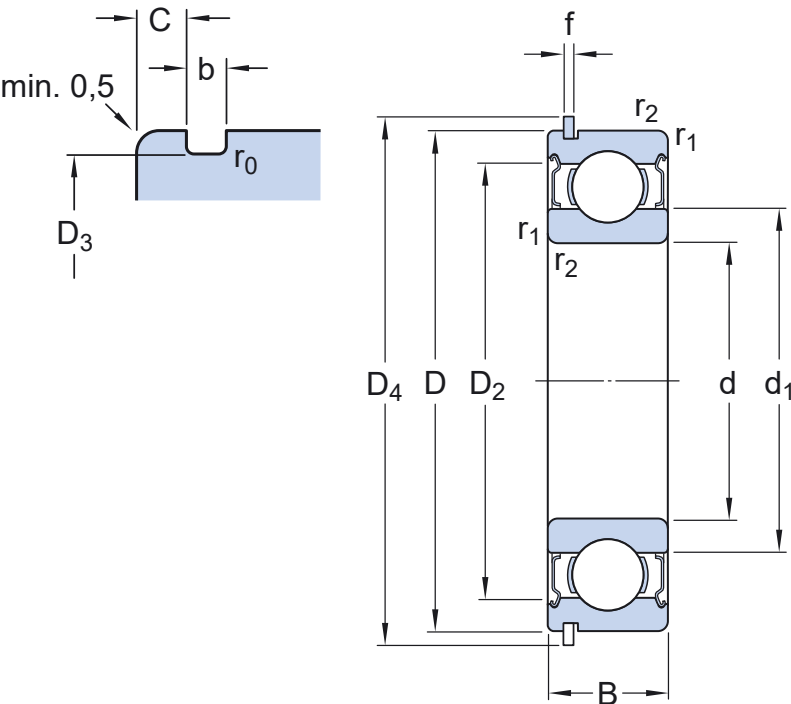
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Snap ring (fitted)
Bore type	Cylindrical
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

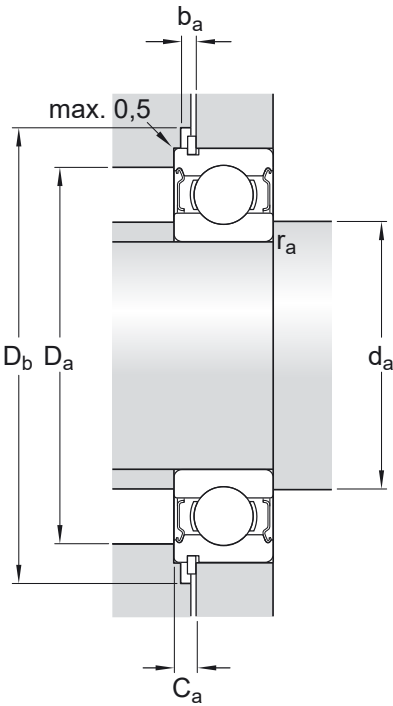
Product net weight	0.374 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	40 mm	Bore diameter
D	80 mm	Outside diameter
B	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
C	3.28 mm	Distance from outer ring side face to snap ring groove
f	1.7 mm	Width of snap ring
r ₀	max. 0.6 mm	Bottom radius of snap ring groove
r _{1,2}	min. 1.1 mm	Chamfer dimension



Abutment dimensions

d _a	min. 47 mm	Diameter of shaft abutment
d _a	max. 52.5 mm	Diameter of shaft abutment
D _a	max. 73 mm	Diameter of housing abutment
D _b	min. 88 mm	Diameter of snap ring recess in the housing
b _a	min. 2.2 mm	Width of snap ring recess in the housing
C _a	max. 4.98 mm	Distance from outer ring side face to snap ring back face
r _a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	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		9 000 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14

Included products

Snap ring	SP 80
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Tolerance class

Dimensional tolerances	P6
Radial run-out	P6

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

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