



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

## 6213-2ZNR

### 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	65 mm
Outside diameter	120 mm
Width	23 mm

Performance

Basic dynamic load rating	58.5 kN
Basic static load rating	40.5 kN
Reference speed	12 000 r/min
Limiting speed	6 000 r/min
SKF performance class	SKF Explorer

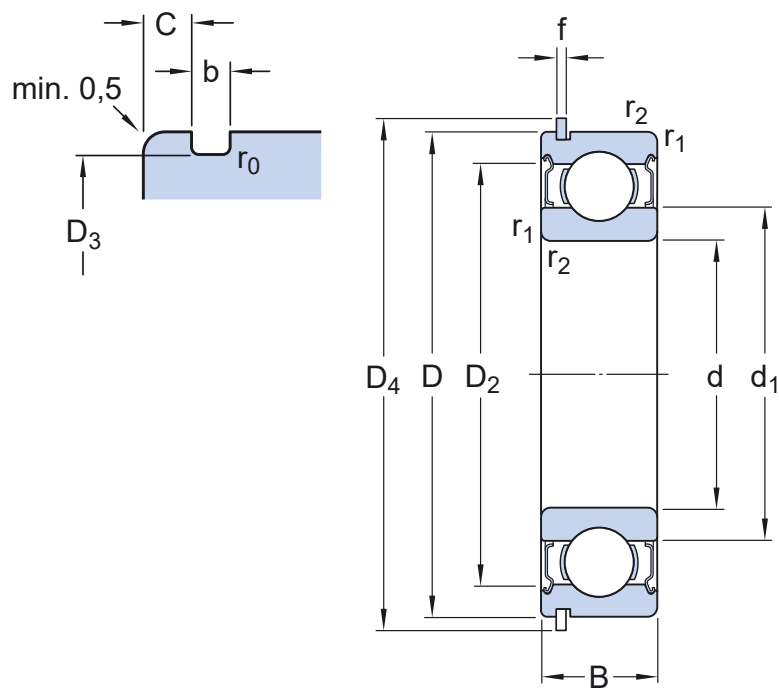
Properties

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	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

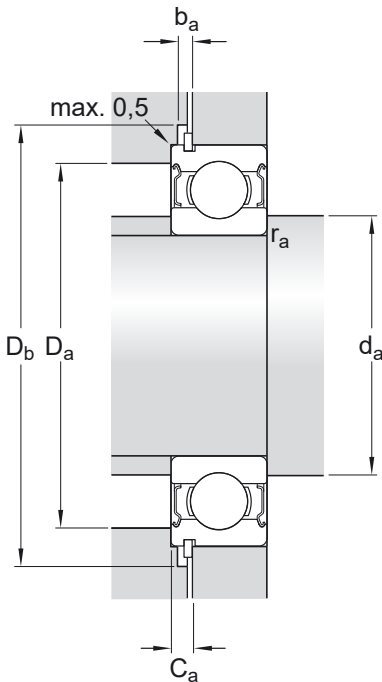
Product net weight	1.08 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	65 mm	Bore diameter
D	120 mm	Outside diameter
B	23 mm	Width
d <sub>1</sub>	≈ 83.3 mm	Shoulder diameter
D <sub>2</sub>	≈ 105.8 mm	Recess diameter
D <sub>3</sub>	115.21 mm	Diameter of snap ring groove
D <sub>4</sub>	129.7 mm	Outside diameter of snap ring
b	3.1 mm	Width of snap ring groove
C	4.06 mm	Distance from outer ring side face to snap ring groove
f	2.82 mm	Width of snap ring
r <sub>0</sub>	max. 0.6 mm	Bottom radius of snap ring groove
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension



Abutment dimensions

d <sub>a</sub>	min. 74 mm	Diameter of shaft abutment
d <sub>a</sub>	max. 83.2 mm	Diameter of shaft abutment
D <sub>a</sub>	max. 111 mm	Diameter of housing abutment
D <sub>b</sub>	min. 131 mm	Diameter of snap ring recess in the housing
b <sub>a</sub>	min. 3.5 mm	Width of snap ring recess in the housing
C <sub>a</sub>	max. 6.88 mm	Distance from outer ring side face to snap ring back face
r <sub>a</sub>	max. 1.5 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	58.5 kN
Basic static load rating	C <sub>0</sub>	40.5 kN
Fatigue load limit	P <sub>u</sub>	1.73 kN
Reference speed		12 000 r/min
Limiting speed		6 000 r/min
Minimum load factor	k <sub>r</sub>	0.025
Calculation factor	f <sub>0</sub>	14.7

Included products

Snap ring	SP 120
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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

 Product details	 Engineering information	 Tools
<a href="#">Single row deep groove ball bearings</a>	<a href="#">Principles of rolling bearing selection</a>	<a href="#">SKF Product 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="#">Bearing Frequency 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="#">General bearing specifications</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="#">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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