



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

6213 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	2.559 in
Outside diameter	4.724 in
Width	0.906 in

Performance

Basic dynamic load rating	13 151 lbf
Basic static load rating	9 105 lbf
Reference speed	12 000 r/min
Limiting speed	7 500 r/min
SKF performance class	SKF Explorer

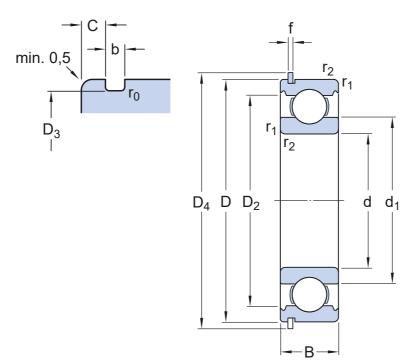
Properties

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	2.262 lb
eClass code	23-05-08-01
UNSPSC code	31171504

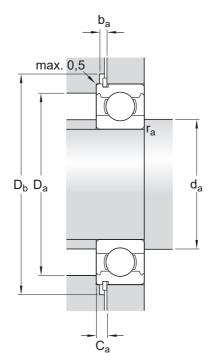
Technical specification



Dimensions

d	2.559 in	Bore diameter
	2.007	
D	4.724 in	Outside diameter
В	0.906 in	Width
d1	≈ 3.28 in	Shoulder diameter
D ₃	4.536 in	Diameter of snap ring groove
D4	5.106 in	Outside diameter of snap ring
b	0.122 in	Width of snap ring groove
С	0.16 in	Distance from outer ring side face to snap ring groove
f	0.111 in	Width of snap ring
ro	max. 0.024 in	Bottom radius of snap ring groove
٢1,2	min. 0.059 in	Chamfer dimension

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Abutment dimensions

d _a	min. 2.913 in	Diameter of shaft abutment
Da	max. 4.37 in	Diameter of housing abutment
D _b	min. 5.157 in	Diameter of snap ring recess in the housing
b _a	min. 0.138 in	Width of snap ring recess in the housing
C _a	max. 0.271 in	Distance from outer ring side face to snap ring back face
ra	max. 0.059 in	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	13 151 lbf
Basic static load rating	Co	9 105 lbf
Fatigue load limit	Pu	389 lbf
Reference speed		12 000 r/min
Limiting speed		7 500 r/min

Included products

Snap ring

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



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