



6215 N

Deep groove ball bearing with snap ring groove

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. An annular groove in the outer ring enables the bearings to retain a snap ring.

- Can accommodate a snap ring
- 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	2.953 in
Outside diameter	5.118 in
Width	0.984 in

Performance

Basic dynamic load rating	15 489 lbf
Basic static load rating	11 016 lbf
Limiting speed	6 700 r/min
Reference speed	10 000 r/min
SKF performance class	SKF Explorer

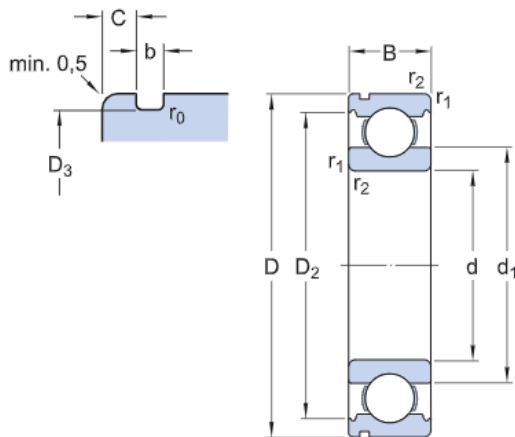
Properties

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

Technical Specification

SKF performance class

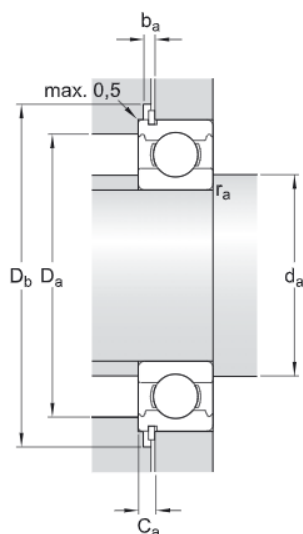
SKF Explorer



Dimensions

d	2.953 in	Bore diameter
D	5.118 in	Outside diameter
B	0.984 in	Width
d ₁	≈ 3.624 in	Shoulder diameter
D ₂	≈ 4.5866 in	Recess diameter
D ₃	4.93 in	Diameter of snap ring groove
b	0.122 in	Width of snap ring groove
C	0.16 in	Distance outer ring from side face to snap ring groove
r ₀	max. 0.024 in	Bottom radius of snap ring groove
r _{1,2}	min. 0.059 in	Chamfer dimension

Abutment dimensions



d _a	min. 3.307 in	Diameter of shaft abutment
D _i	max. 4.764 in	Diameter of housing abutment
D _l	min. 5.551 in	Diameter of snap ring recess in the housing
b _a	min. 0.138 in	Width of snap ring recess in the housing
C _e	max. 0.271 in	Distance from outer ring side face to snap ring back face
r _a	max. 0.059 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	15 489 lbf
Basic static load rating	C ₀	11 016 lbf
Fatigue load limit	P _u	459 lbf
Reference speed		10 000 r/min
Limiting speed		6 700 r/min
Minimum load factor	k _r	0.025
Calculation factor	f ₀	14.7

Mass

Mass bearing	2.574 lb
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Tolerance class

Dimensional tolerances	P6
Radial run-out	Normal

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