

6303-2RSH



Deep groove ball bearing with seals

Single row deep groove ball bearings with seals 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 integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- 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	0.669 in
Outside diameter	1.85 in
Width	0.551 in

Performance

Basic dynamic load rating	3 215 lbf
Basic static load rating	1 472 lbf
Limiting speed	11 000 r/min
SKF performance class	SKF Explorer

Properties

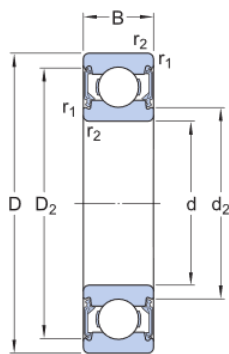
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature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

Technical Specification

SKF performance class

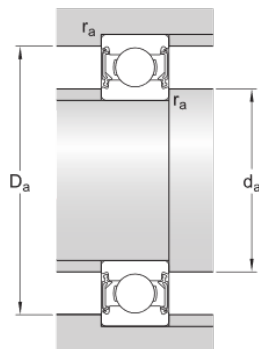
SKF Explorer

Dimensions



d	0.669 in	Bore diameter
D	1.85 in	Outside diameter
B	0.551 in	Width
d ₂	≈ 0.921 in	Recess diameter
D ₂	≈ 1.558 in	Recess diameter
r _{1,2}	min. 0.039 in	Chamfer dimension

Abutment dimensions



d _a min.	0.89 in	Diameter of shaft abutment
d _a max.	0.925 in	Diameter of shaft abutment
D _a max.	1.63 in	Diameter of housing abutment
r _a max.	0.039 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	3 215 lbf
Basic static load rating	C ₀	1 472 lbf
Fatigue load limit	P _u	62 lbf
Limiting speed		11 000 r/min

Minimum load factor	k_r	0.03
Calculation factor	f_0	12

Mass

Mass bearing	0.255 lb
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Tolerance class

Dimensional tolerances	P6
Radial run-out	P5

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