

6003-2RSH

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	1.378 in
Width	0.394 in

Performance

Basic dynamic load rating	1 432 lbf
Basic static load rating	731 lbf
Limiting speed	13 000 r/min
SKF performance class	SKF Explorer

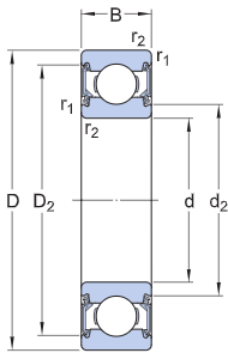
Properties

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

Technical Specification

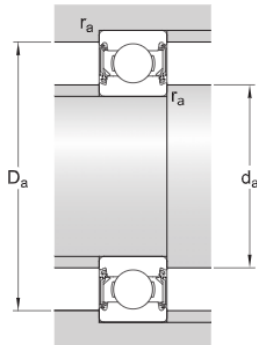
SKF performance class

SKF Explorer



Dimensions

d	0.669 in	Bore diameter
D	1.378 in	Outside diameter
B	0.394 in	Width
d ₂	≈ 0.805 in	Recess diameter
D ₂	≈ 1.228 in	Recess diameter
r _{1,2}	min. 0.012 in	Chamfer dimension



Abutment dimensions

d _a min.	0.748 in	Diameter of shaft abutment
d _a max.	0.807 in	Diameter of shaft abutment
D _a max.	1.299 in	Diameter of housing abutment
r _a max.	0.012 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	1 432 lbf
Basic static load rating	C ₀	731 lbf
Fatigue load limit	P _u	31 lbf
Limiting speed		13 000 r/min

Minimum load factor	k_r	0.025
Calculation factor	f_0	14

Mass

Mass bearing		0.087 lb
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Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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