

# 609-2RSH

## 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	9 mm
Outside diameter	24 mm
Width	7 mm

### Performance

Basic dynamic load rating	3.9 kN
Basic static load rating	1.66 kN
Limiting speed	19 000 r/min
SKF performance class	SKF Explorer

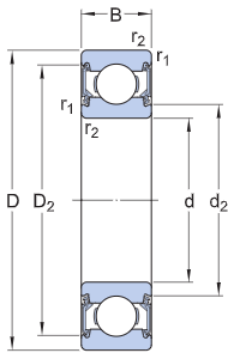
## Properties

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

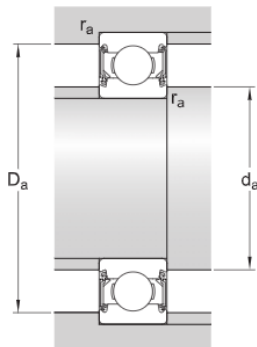
SKF performance class

SKF Explorer



## Dimensions

d	9 mm	Bore diameter
D	24 mm	Outside diameter
B	7 mm	Width
d <sub>2</sub>	≈ 12.85 mm	Recess diameter
D <sub>2</sub>	≈ 21.2 mm	Recess diameter
r <sub>1,2</sub>	min. 0.3 mm	Chamfer dimension



## Abutment dimensions

d <sub>a</sub> min.	11 mm	Diameter of shaft abutment
d <sub>a</sub> max.	12.5 mm	Diameter of shaft abutment
D <sub>a</sub> max.	22 mm	Diameter of housing abutment
r <sub>a</sub> max.	0.3 mm	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	3.9 kN
Basic static load rating	C <sub>0</sub>	1.66 kN
Fatigue load limit	P <sub>u</sub>	0.071 kN
Limiting speed		19 000 r/min

Minimum load factor	$k_r$	0.025
Calculation factor	$f_0$	13

### Mass

Mass bearing		0.015 kg
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### Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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