

# 62307-2RS1



## Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields 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 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	35 mm
Outside diameter	80 mm
Width	31 mm

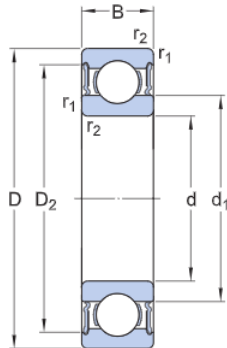
### Performance

Basic dynamic load rating	33.2 kN
Basic static load rating	19 kN
Limiting speed	6 000 r/min

### Properties

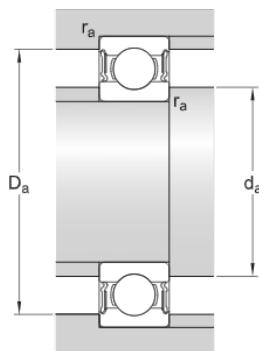
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on both sides
Sealing type	Contact
Lubricant	Grease
Relubrication feature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

## Technical Specification



### Dimensions

d	1.378 in	Bore diameter
D	3.15 in	Outside diameter
B	1.22 in	Width
d <sub>1</sub>	≈ 1.951 in	Shoulder diameter
D <sub>2</sub>	≈ 2.724 in	Recess diameter
r <sub>1,2</sub>	min. 0.059 in	Chamfer dimension



### Abutment dimensions

d <sub>a</sub> min.	1.732 in	Diameter of shaft abutment
d <sub>a</sub> max.	1.949 in	Diameter of shaft abutment
D <sub>a</sub> max.	2.795 in	Diameter of housing abutment
r <sub>a</sub> max.	0.059 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	7 464 lbf
Basic static load rating	C <sub>0</sub>	4 271 lbf
Fatigue load limit	P <sub>u</sub>	183 lbf
Limiting speed		6 000 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	13.1

## Mass

Mass bearing	1.499 lb
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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