

RLS 6-2RS1

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	0.75 in
Outside diameter	1.875 in
Width	0.563 in

Performance

Basic dynamic load rating	2 855 lbf
Basic static load rating	1 472 lbf
Limiting speed	10 000 r/min

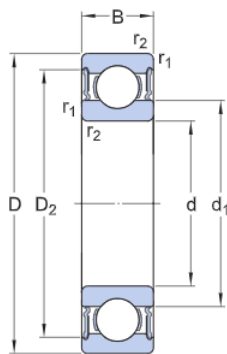
Properties

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

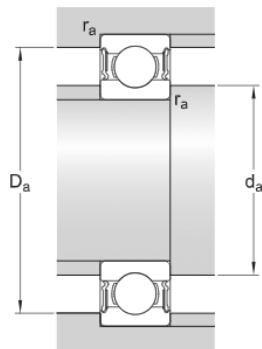
Aftermarket only

Yes



Dimensions

d	0.75 in	Bore diameter
D	1.875 in	Outside diameter
B	0.563 in	Width
d ₁	≈ 1.134 in	Shoulder diameter
D ₂	≈ 1.598 in	Recess diameter
r _{1,2}	min. 0.063 in	Chamfer dimension



Abutment dimensions

d _a min.	1.024 in	Diameter of shaft abutment
d _a max.	1.126 in	Diameter of shaft abutment
D _a max.	1.575 in	Diameter of housing abutment
r _a max.	0.059 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	2 855 lbf
Basic static load rating	C ₀	1 472 lbf
Fatigue load limit	P _u	63 lbf
Limiting speed		10 000 r/min

Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.261 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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