



Image may differ from product. See technical specification for details.

61812-2RS1

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	2.362 in
Outside diameter	3.071 in
Width	0.394 in

Performance

Basic dynamic load rating	2 563 lbf
Basic static load rating	1 978 lbf
Limiting speed	4 800 r/min

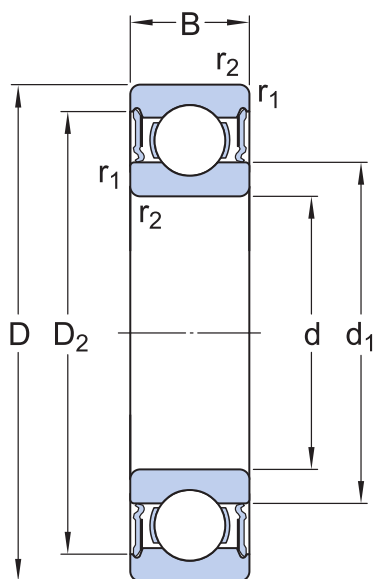
Properties

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
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Seal on one side
Sealing type	Contact
Lubricant	None
Relubrication feature	Without

Logistics

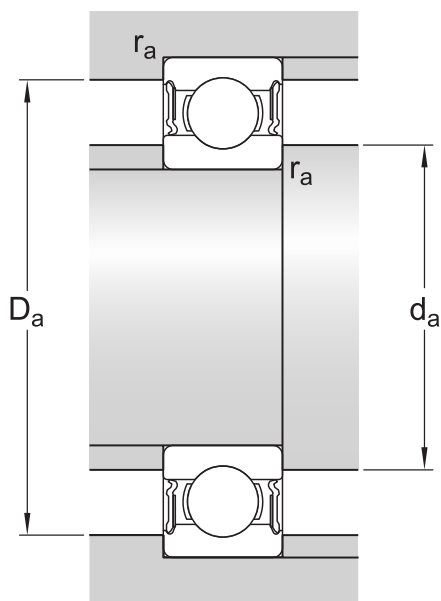
Product net weight	0.2138 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	2.362 in	Bore diameter
D	3.071 in	Outside diameter
B	0.394 in	Width
d ₁	≈ 2.587 in	Shoulder diameter
D ₂	≈ 2.9331 in	Recess diameter
r _{1,2}	min. 0 in	Chamfer dimension



Abutment dimensions

d_a	min. 2.4409 in	Diameter of shaft abutment
d_a	max. 2.5787 in	Diameter of shaft abutment
D_a	max. 2.9921 in	Diameter of housing abutment
r_a	max. 0.0118 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	2 563 lbf
Basic static load rating	C_0	1 978 lbf
Fatigue load limit	P_u	105 lbf
Limiting speed		4 800 r/min
Minimum load factor	k_r	0.015
Calculation factor	f_0	13.7

Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

More Information

 Product details	 Engineering information	 Tools
Single row deep groove ball bearings	Principles of rolling bearing selection	SKF Product select
Stainless steel deep groove ball bearings	General bearing knowledge	SimPro Quick
Single row deep groove ball bearings with filling slots	Bearing selection process	Bearing Frequency Calculator
Double row deep groove ball bearings	Bearing interfaces	LubeSelect for SKF greases
General bearing specifications	Seat tolerances for standard conditions	Heater selection tool
Loads	Selecting internal clearance	
Temperature limits	Lubrication	
Permissible speed	Sealing, mounting and dismounting	
Designation system	Bearing failure and how to prevent it	

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