

6001-2Z

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	0.472 in
Outside diameter	1.102 in
Width	0.315 in

Performance

Basic dynamic load rating	1 214 lbf
Basic static load rating	531 lbf
Limiting speed	30 000 r/min
Reference speed	60 000 r/min
SKF performance class	SKF Explorer

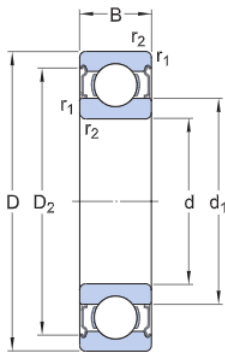
Properties

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	Shield on both sides
Sealing type	Non-contact

Technical Specification

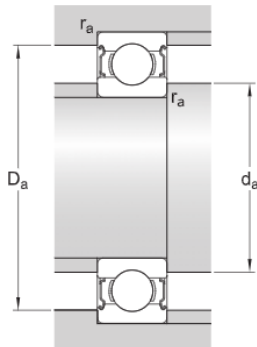
SKF performance class

SKF Explorer



Dimensions

d	0.472 in	Bore diameter
D	1.102 in	Outside diameter
B	0.315 in	Width
d_1	≈ 0.669 in	Shoulder diameter
D_2	≈ 0.973 in	Recess diameter
$r_{1,2}$	min. 0.012 in	Chamfer dimension



Abutment dimensions

d_a min.	0.551 in	Diameter of shaft abutment
d_a max.	0.665 in	Diameter of shaft abutment
D_a max.	1.024 in	Diameter of housing abutment
r_a max.	0.012 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	1 214 lbf
Basic static load rating	C_0	531 lbf
Fatigue load limit	P_u	22 lbf
Reference speed		60 000 r/min

Limiting speed		30 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing		0.049 lb
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Tolerance class

Dimensional tolerances		P6
Radial run-out		P5

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