



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

6022-RS1

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	4.331 in
Outside diameter	6.693 in
Width	1.102 in

Performance

Basic dynamic load rating	19 154 lbf
Basic static load rating	16 523 lbf
Limiting speed	2 400 r/min
SKF performance class	SKF Explorer

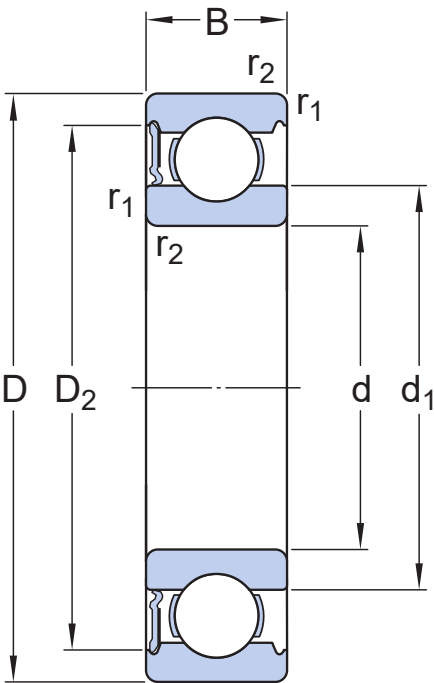
Properties

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 one side
Sealing type	Contact
Lubricant	None
Relubrication feature	Without

Logistics

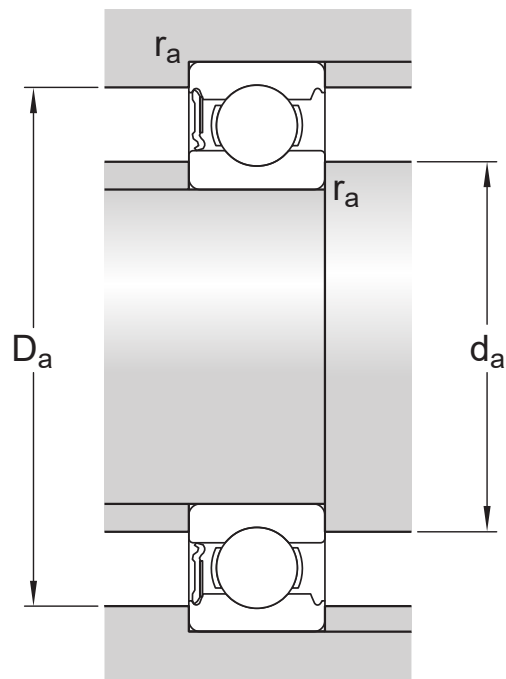
Product net weight	4.246 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	4.331 in	Bore diameter
t _{Δdmp}	-15 – 0 μm	Deviation limits of mid-range bore diameter
D	6.693 in	Outside diameter
t _{ΔDmp}	-18 – 0 μm	Deviation limits of mid-range outside diameter
B	1.102 in	Width
t _{ΔBs}	-100 – 0 μm	Deviation limits of ring width
d ₁	≈ 5.081 in	Shoulder diameter
D ₂	≈ 6.114 in	Recess diameter
r _{1,2}	min. 0.079 in	Chamfer dimension
P6 and tighter width tolerance		ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 4.685 in	Diameter of shaft abutment
d_a	max. 5.075 in	Diameter of shaft abutment
D_a	max. 6.339 in	Diameter of housing abutment
r_a	max. 0.079 in	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	19 154 lbf
Basic static load rating	C_0	16 523 lbf
Fatigue load limit	P_u	585 lbf
Limiting speed		2 400 r/min

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{kia}	25 μm
Range of section height at outer ring of assembled bearing	t_{kea}	45 μm
ISO tolerance class for geometrical tolerances		Normal

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

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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