



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

6215-Z

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	2.953 in
Outside diameter	5.118 in
Width	0.984 in

Performance

Basic dynamic load rating	15 489 lbf
Basic static load rating	11 016 lbf
Reference speed	10 000 r/min
Limiting speed	6 700 r/min
SKF performance class	SKF Explorer

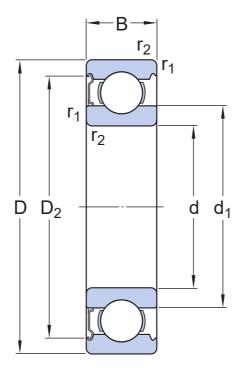
Properties

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	Shield on one side
Sealing type	Non-contact
Lubricant	None
Relubrication feature	Without

Logistics

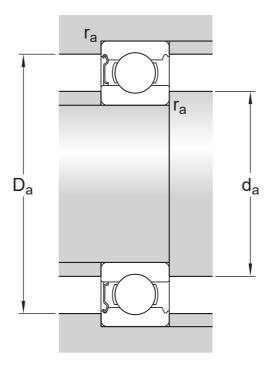
Product net weight	2.585 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	2.953 in	Bore diameter
t_{\Deltadmp}	-12 − 0 μm	Deviation limits of mid-range bore diameter
D	5.118 in	Outside diameter
$t_{\Delta Dmp}$	-15 – 0 μm	Deviation limits of mid-range outside diameter
В	0.984 in	Width
t∆Bs	-100 – 0 μm	Deviation limits of ring width
d ₁	≈ 3.624 in	Shoulder diameter
D ₂	≈ 4.587 in	Recess diameter
r _{1,2}	min. 0.059 in	Chamfer dimension
	P6 and tighter width tolerance	ISO tolerance class for dimensions



Abutment dimensions

da	min. 3.307 in	Diameter of shaft abutment
da	max. 3.622 in	Diameter of shaft abutment
Da	max. 4.764 in	Diameter of housing abutment
ra	max. 0.059 in	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	15 489 lbf
Basic static load rating	C ₀	11 016 lbf
Fatigue load limit	Pu	459 lbf
Reference speed		10 000 r/min
Limiting speed		6 700 r/min

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	20 μm
Range of section height at outer ring of assembled bearing	t_Kea	40 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

Engineering Tools Product details information Single row deep groove ball bearings SKF Product select Principles of rolling bearing selection Stainless steel deep groove ball SimPro Quick General bearing knowledge Bearing Frequency Calculator Single row deep groove ball bearings Bearing selection process with filling slots LubeSelect for SKF greases Bearing interfaces Double row deep groove ball bearings Heater selection tool Seat tolerances for standard General bearing specifications conditions 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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