



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

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Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	6 mm
Outside diameter	15 mm
Width	5 mm

Performance

Basic dynamic load rating	0.884 kN
Basic static load rating	0.27 kN
Reference speed	100 000 r/min
Limiting speed	63 000 r/min

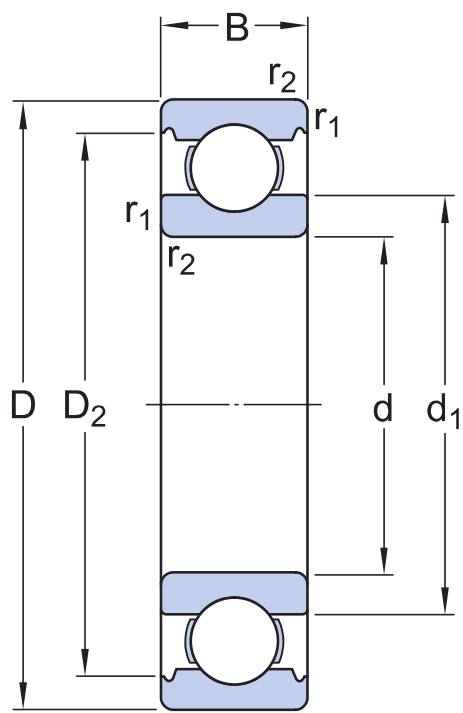
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Logistics

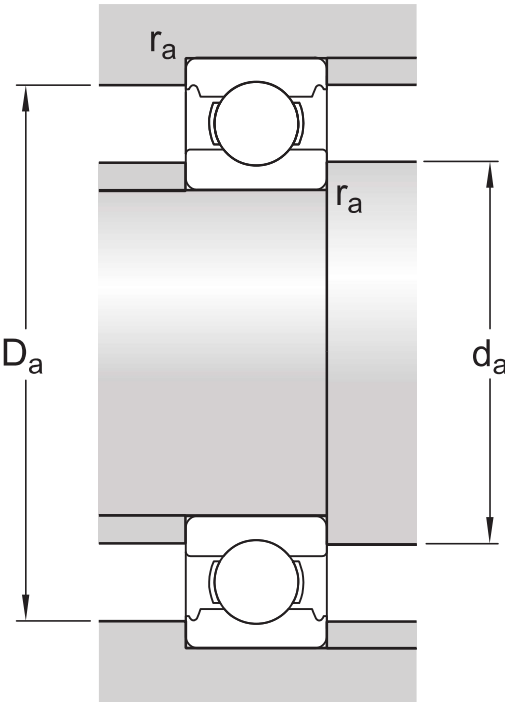
Product net weight	0.0038 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	6 mm	Bore diameter
t _{Δdmp}	-0.007 – 0 mm	Deviation limits of mid-range bore diameter
D	15 mm	Outside diameter
t _{ΔDmp}	-0.007 – 0 mm	Deviation limits of mid-range outside diameter
B	5 mm	Width
t _{ΔBs}	-0.12 – 0 mm	Deviation limits of ring width
d ₁	≈ 8.2 mm	Shoulder diameter
D ₂	≈ 13 mm	Recess diameter
r _{1,2}	min. 0.2 mm	Chamfer dimension
	P6	ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 7.4 mm	Diameter of shaft abutment
D_a	max. 13.6 mm	Diameter of housing abutment
r_a	max. 0.2 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	0.884 kN
Basic static load rating	C_0	0.27 kN
Fatigue load limit	P_u	0.011 kN
Reference speed		100 000 r/min
Limiting speed		63 000 r/min
Minimum load factor	k_r	0.02
Calculation factor	f_0	6.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	6 μ m
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Range of section height at outer ring of assembled bearing	t_{Kea}	8 µm
ISO tolerance class for geometrical tolerances		P6

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