



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

6006 N

Deep groove ball bearing with snap ring groove

Single row deep groove ball bearings with a snap ring groove 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. An annular groove in the outer ring enables the bearings to retain a snap ring.

- Can accommodate a snap ring
- 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	30 mm
Outside diameter	55 mm
Width	13 mm

Performance

Basic dynamic load rating	13.8 kN
Basic static load rating	8.3 kN
Reference speed	28 000 r/min
Limiting speed	17 000 r/min
SKF performance class	SKF Explorer

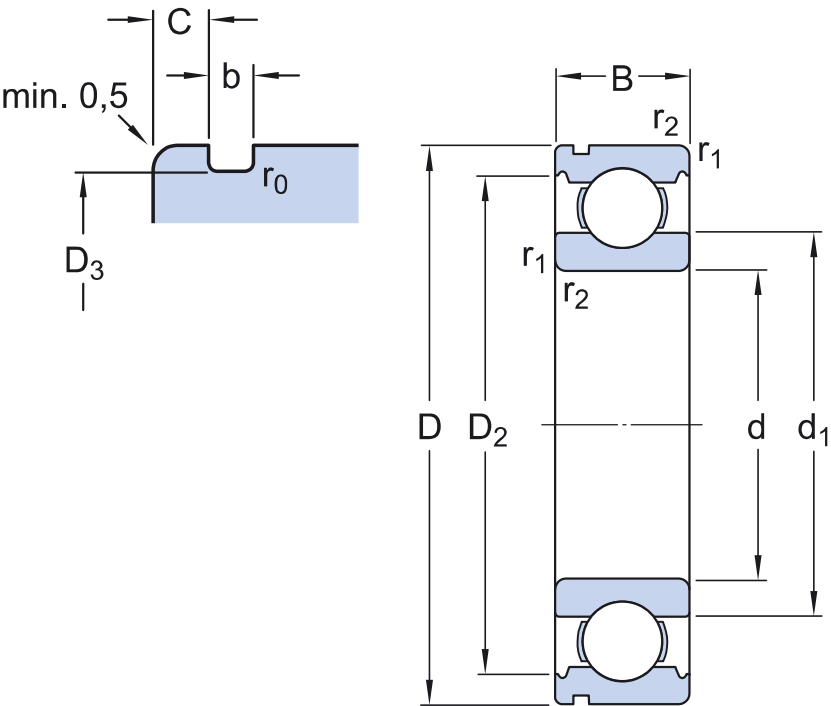
Properties

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

Logistics

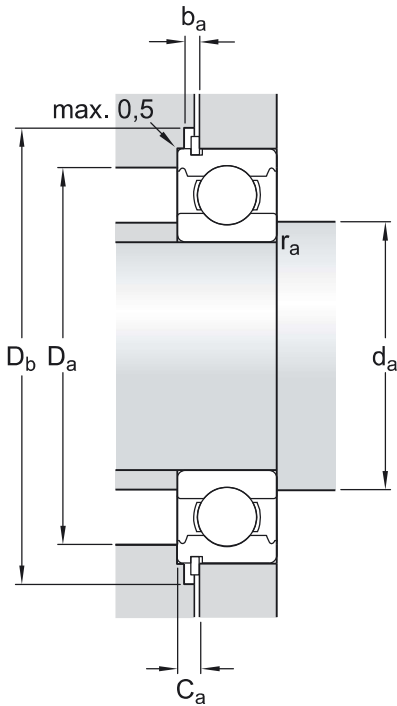
Product net weight	0.111 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	30 mm	Bore diameter
t _{Δdmp}	-0.008 – 0 mm	Deviation limits of mid-range bore diameter
D	55 mm	Outside diameter
t _{ΔDmp}	-0.011 – 0 mm	Deviation limits of mid-range outside diameter
B	13 mm	Width
t _{ΔBs}	-0.06 – 0 mm	Deviation limits of ring width
d ₁	≈ 38.2 mm	Shoulder diameter
D ₂	≈ 49 mm	Recess diameter
D ₃	52.6 mm	Diameter of snap ring groove
b	1.35 mm	Width of snap ring groove
C	2.06 mm	Distance from outer ring side face to snap ring groove
r ₀	max. 0.4 mm	Bottom radius of snap ring groove
r _{1,2}	min. 1 mm	Chamfer dimension
P6 and tighter width tolerance		ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 34.6 mm	Diameter of shaft abutment
D_a	max. 50.4 mm	Diameter of housing abutment
D_b	min. 62 mm	Diameter of snap ring recess in the housing
b_a	min. 1.5 mm	Width of snap ring recess in the housing
C_a	max. 3.18 mm	Distance from outer ring side face to snap ring back face
r_a	max. 1 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	13.8 kN
Basic static load rating	C_0	8.3 kN
Fatigue load limit	P_u	0.355 kN
Reference speed		28 000 r/min
Limiting speed		17 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	14.7

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	8 μm
Range of section height at outer ring of assembled bearing	t _{Kea}	13 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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