



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

## 6212 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	60 mm
Outside diameter	110 mm
Width	22 mm

## Performance

Basic dynamic load rating	55.3 kN
Basic static load rating	36 kN
Reference speed	13 000 r/min
Limiting speed	8 000 r/min
SKF performance class	SKF Explorer

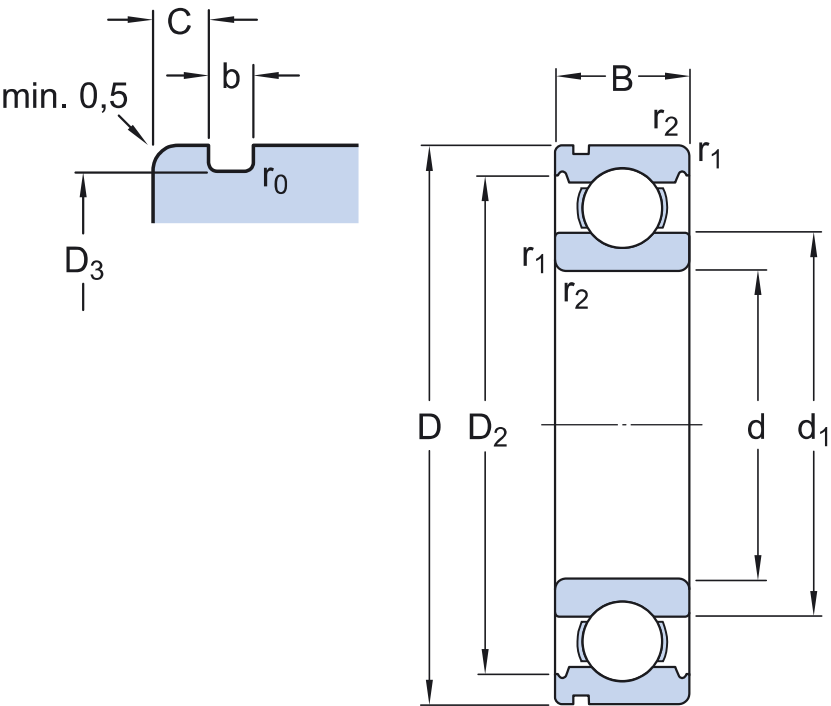
## Properties

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

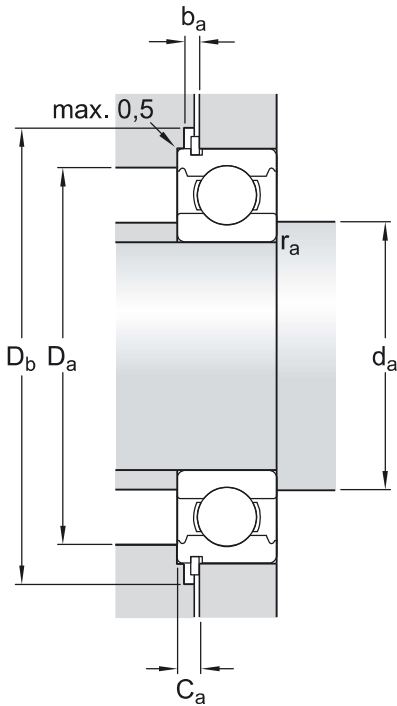
Product net weight	0.754 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	60 mm	Bore diameter
D	110 mm	Outside diameter
B	22 mm	Width
d <sub>1</sub>	≈ 75.5 mm	Shoulder diameter
D <sub>2</sub>	≈ 98 mm	Recess diameter
D <sub>3</sub>	106.81 mm	Diameter of snap ring groove
b	2.7 mm	Width of snap ring groove
C	3.28 mm	Distance from outer ring side face to snap ring groove
r <sub>0</sub>	max. 0.6 mm	Bottom radius of snap ring groove
r <sub>1,2</sub>	min. 1.5 mm	Chamfer dimension



Abutment dimensions

$d_a$	min. 69 mm	Diameter of shaft abutment
$D_a$	max. 101 mm	Diameter of housing abutment
$D_b$	min. 118 mm	Diameter of snap ring recess in the housing
$b_a$	min. 3 mm	Width of snap ring recess in the housing
$C_a$	max. 5.74 mm	Distance from outer ring side face to snap ring back face
$r_a$	max. 1.5 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	C	55.3 kN
Basic static load rating	$C_0$	36 kN
Fatigue load limit	$P_u$	1.53 kN
Reference speed		13 000 r/min
Limiting speed		8 000 r/min
Minimum load factor	$k_r$	0.025
Calculation factor	$f_0$	14.3

Tolerance class

Dimensional tolerances	P6
Radial run-out	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

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