



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

6212-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	60 mm
Outside diameter	110 mm
Width	22 mm

Performance

Basic dynamic load rating	55.3 kN
Basic static load rating	36 kN
Limiting speed	4 000 r/min
SKF performance class	SKF Explorer

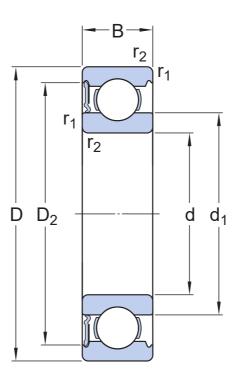
Properties

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

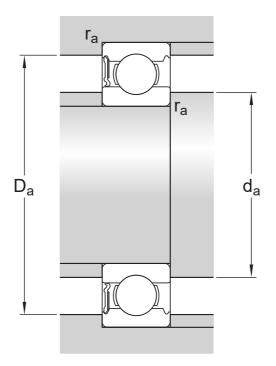
Product net weight	0.769 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	60 mm	Bore diameter
$t_{\Delta dmp}$	-0.012 – 0 mm	Deviation limits of mid-range bore diameter
D	110 mm	Outside diameter
t _{ΔDmp}	-0.013 – 0 mm	Deviation limits of mid-range outside diameter
В	22 mm	Width
$t_{\Delta Bs}$	-0.06 – 0 mm	Deviation limits of ring width
d ₁	≈ 75.5 mm	Shoulder diameter
D2	≈ 98 mm	Recess diameter
٢1,2	min. 1.5 mm	Chamfer dimension
	P6 and tighter width tolerance	ISO tolerance class for dimensions



Abutment dimensions

da	min. 69 mm	Diameter of shaft abutment
da	max. 75.4 mm	Diameter of shaft abutment
Da	max. 101 mm	Diameter of housing abutment
ra	max. 1.5 mm	Radius of shaft or housing fillet

Calculation data

SKF performance class		SKF Explorer
Basic dynamic load rating	С	55.3 kN
Basic static load rating	C ₀	36 kN
Fatigue load limit	Pu	1.53 kN
Limiting speed		4 000 r/min
Minimum load factor	kr	0.025
Calculation factor	f ₀	14.3

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	10 μm
Range of section height at outer ring of assembled bearing	t _{Kea}	18 μm

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