

# 6311-2RS1

- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

Normal (metric), P6, P5, Normal (inch),

[Radial internal clearance,](#)

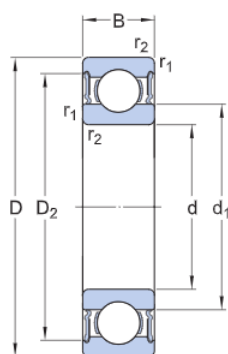
Classes C2 to C5

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

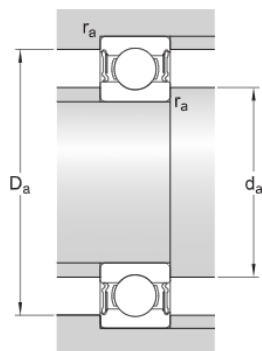
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	29 mm	Width
d <sub>1</sub>	≈ 75.34 mm	Shoulder diameter
D <sub>2</sub>	≈ 103.7 mm	Recess diameter
r <sub>1,2</sub>	min. 2 mm	Chamfer dimension



### ABUTMENT DIMENSIONS

d <sub>c</sub> min. 66 mm	Diameter of shaft abutment
d <sub>c</sub> max. 75.2 mm	Diameter of shaft abutment
D <sub>i</sub> max. 109 mm	Diameter of housing abutment
r <sub>a</sub> max. 2 mm	Radius of shaft or housing fillet

## CALCULATION DATA

Basic dynamic load rating	C	74.1 kN
Basic static load rating	C <sub>0</sub>	45 kN
Fatigue load limit	P <sub>u</sub>	1.9 kN
Limiting speed		3 800 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	13.1

## MASS

Mass bearing	1.41 kg
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## TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	Normal

## More information

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

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