

# 6010-2RS1

- Popular item  
- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

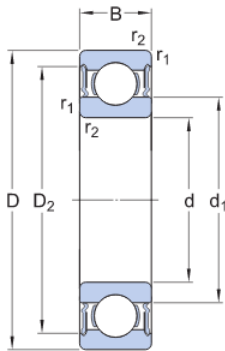
Matched bearing pairs, Stainless steel  
 $d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

## Technical specification

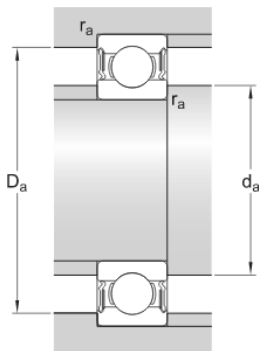


### DIMENSIONS

d	50 mm	Bore diameter
D	80 mm	Outside diameter
B	16 mm	Width
$d_1$	≈ 59.75 mm	Shoulder diameter
$D_2$	≈ 72.8 mm	Recess diameter
$r_{1,2}$	min. 1 mm	Chamfer dimension

### ABUTMENT DIMENSIONS

$d_c$ min.	54.6 mm	Diameter of shaft abutment
$d_c$ max.	59.7 mm	Diameter of shaft abutment
$D_i$ max.	75.4 mm	Diameter of housing abutment
$r_a$ max.	1 mm	Radius of shaft or housing fillet



## CALCULATION DATA

Basic dynamic load rating	C	22.9 kN
Basic static load rating	$C_0$	15.6 kN
Fatigue load limit	$P_u$	0.71 kN
Limiting speed		5 000 r/min
Minimum load factor	$k_r$	0.025
Calculation factor	$f_0$	14.7

## MASS

Mass bearing	0.27 kg
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## TOLERANCE CLASS

Dimensional tolerances	P6
Radial run-out	P6

## 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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