



# 6010-2Z

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

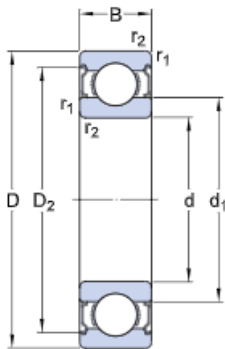
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

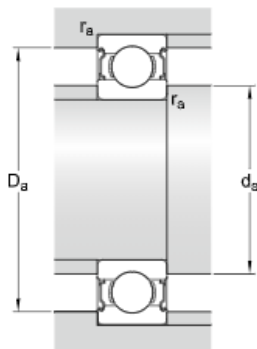
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

|   |            |
|---|------------|
| d | 50 mm      |
| D | 80 mm      |
| B | 16 mm      |
|   | ≈ 59.75 mm |
|   | ≈ 72.8 mm  |
|   | min. 1 mm  |



### ABUTMENT DIMENSIONS

|  |              |
|--|--------------|
|  | min. 54.6 mm |
|  | max. 59.7 mm |
|  | max. 75.4 mm |
|  | max. 1 mm    |

## CALCULATION DATA

|                           |   |             |
|---------------------------|---|-------------|
| Basic dynamic load rating | C | 22.9 kN     |
| Basic static load rating  |   | 15.6 kN     |
| Fatigue load limit        |   | 0.71 kN     |
| Reference speed           |   | 18000 r/min |
| Limiting speed            |   | 9000 r/min  |
| Calculation factor        |   | 0.025       |
| Calculation factor        |   | 14.7        |

## MASS

|              |  |         |
|--------------|--|---------|
| Mass bearing |  | 0.27 kg |
|--------------|--|---------|

## 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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