



# 61816-2RZ

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

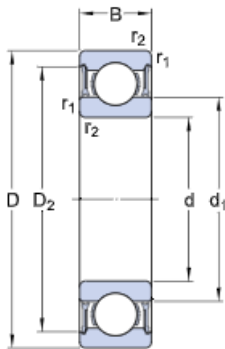
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

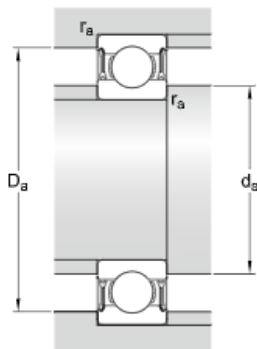
[Tolerances and resultant fits](#)

## Technical specification



### DIMENSIONS

|           |             |
|-----------|-------------|
| $d$       | 80 mm       |
| $D$       | 100 mm      |
| $B$       | 10 mm       |
| $d_1$     | ≈ 86.7 mm   |
| $D_2$     | ≈ 95.7 mm   |
| $r_{1,2}$ | min. 1.3 mm |



### ABUTMENT DIMENSIONS

|       |              |
|-------|--------------|
| $d_a$ | min. 83.2 mm |
| $d_a$ | max. 86.5 mm |
| $D_a$ | max. 96.8 mm |
| $r_a$ | max. 0.6 mm  |

## CALCULATION DATA

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | C     | 12.7 kN      |
| Basic static load rating  | $C_0$ | 11.2 kN      |
| Fatigue load limit        | $P_u$ | 0.61 kN      |
| Reference speed           |       | 13 000 r/min |
| Limiting speed            |       | 6 300 r/min  |
| Calculation factor        | $k_r$ | 0.015        |
| Calculation factor        | $f_0$ | 13.3         |

## MASS

|              |  |         |
|--------------|--|---------|
| Mass bearing |  | 0.16 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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