



## W 61700 R

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

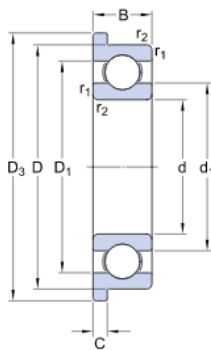
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

### Technical specification

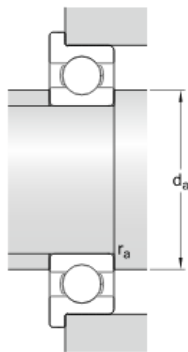


#### DIMENSIONS

|                  |              |
|------------------|--------------|
| d                | 10 mm        |
| D                | 15 mm        |
| B                | 3 mm         |
| d <sub>1</sub>   | ≈ 11.21 mm   |
| D <sub>1</sub>   | ≈ 13.6 mm    |
| D <sub>2</sub>   | ≈ 13.6 mm    |
| D <sub>3</sub>   | 16.5 mm      |
| C                | 0.8 mm       |
| r <sub>1,2</sub> | min. 0.15 mm |

#### ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 11 mm   |
| r <sub>a</sub> | max. 0.15 mm |



## CALCULATION DATA

|                           |       |             |
|---------------------------|-------|-------------|
| Basic dynamic load rating | C     | 0.488 kN    |
| Basic static load rating  | $C_0$ | 0.22 kN     |
| Fatigue load limit        | $P_u$ | 0.009 kN    |
| Reference speed           |       | 85000 r/min |
| Limiting speed            |       | 56000 r/min |
| Calculation factor        | $k_f$ | 0.015       |
| Calculation factor        | $f_0$ | 8           |

## MASS

|              |  |           |
|--------------|--|-----------|
| Mass bearing |  | 0.0015 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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