



618/6

## Deep groove ball bearings

## Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

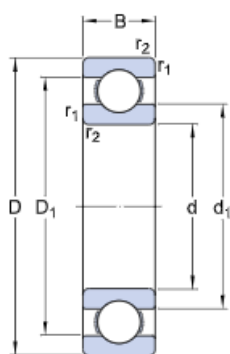
Matched bearing pairs, Stainless steel

d &lt; 10 mm, Other bearings

## Bearing interfaces

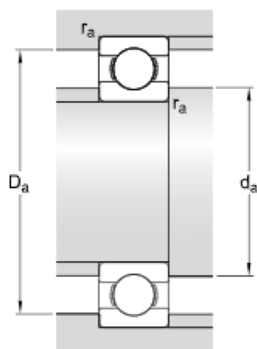
[Seat tolerances for standard conditions,](#)
[Tolerances and resultant fits](#)

## Technical specification



## DIMENSIONS

|                  |              |
|------------------|--------------|
| d                | 6 mm         |
| D                | 13 mm        |
| B                | 3.5 mm       |
| d <sub>1</sub>   | ≈ 8 mm       |
| D <sub>1</sub>   | ≈ 11 mm      |
| r <sub>1,2</sub> | min. 0.15 mm |



## ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 6.8 mm  |
| D <sub>a</sub> | max. 12.2 mm |
| r <sub>a</sub> | max. 0.1 mm  |

## CALCULATION DATA

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | $C$   | 0.715 kN     |
| Basic static load rating  | $C_0$ | 0.224 kN     |
| Fatigue load limit        | $P_u$ | 0.01 kN      |
| Reference speed           |       | 110000 r/min |
| Limiting speed            |       | 67000 r/min  |
| Calculation factor        | $k_r$ | 0.015        |
| Calculation factor        | $f_0$ | 7            |

## MASS

|              |           |
|--------------|-----------|
| Mass bearing | 0.0042 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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