



# W 638/5 R-2RS1

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

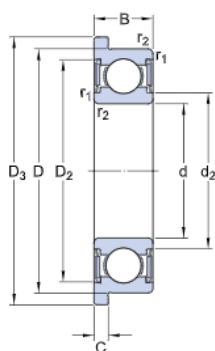
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

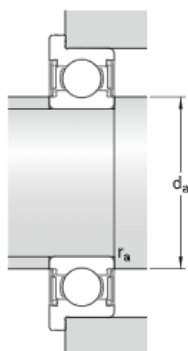


## DIMENSIONS

|                  |              |
|------------------|--------------|
| d                | 5 mm         |
| D                | 11 mm        |
| B                | 5 mm         |
| d <sub>2</sub>   | ≈ 6.2 mm     |
| D <sub>2</sub>   | ≈ 9.9 mm     |
| D <sub>3</sub>   | 12.5 mm      |
| C                | 1 mm         |
| r <sub>1,2</sub> | min. 0.15 mm |

## ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 5.9 mm  |
| d <sub>a</sub> | max. 6.1 mm  |
| r <sub>a</sub> | max. 0.15 mm |



## CALCULATION DATA

|                           |                |             |
|---------------------------|----------------|-------------|
| Basic dynamic load rating | C              | 0.403 kN    |
| Basic static load rating  | C <sub>0</sub> | 0.143 kN    |
| Fatigue load limit        | P <sub>u</sub> | 0.006 kN    |
| Limiting speed            |                | 34000 r/min |
| Calculation factor        | k <sub>r</sub> | 0.02        |
| Calculation factor        | f <sub>0</sub> | 7.1         |

## MASS

|              |          |
|--------------|----------|
| Mass bearing | 0.002 kg |
|--------------|----------|

## More information

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                       |
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| <p>Product details</p> <p><a href="#">Single row deep groove ball bearings</a></p> <hr/> <p><a href="#">Stainless steel deep groove ball bearings</a></p> <hr/> <p><a href="#">Single row deep groove ball bearings with filling slots</a></p> <hr/> <p><a href="#">Double row deep groove ball bearings</a></p> <hr/> <p><a href="#">Bearing data</a></p> <hr/> <p><a href="#">Loads</a></p> <hr/> <p><a href="#">Temperature limits</a></p> <hr/> <p><a href="#">Permissible speed</a></p> <hr/> <p><a href="#">Designation system</a></p> <hr/> | <p>Engineering information</p> <p><a href="#">Principles of rolling bearing selection</a></p> <hr/> <p><a href="#">General bearing knowledge</a></p> <hr/> <p><a href="#">Bearing selection process</a></p> <hr/> <p><a href="#">Bearing interfaces</a></p> <hr/> <p><a href="#">Seat tolerances for standard conditions</a></p> <hr/> <p><a href="#">Selecting internal clearance</a></p> <hr/> <p><a href="#">Lubrication</a></p> <hr/> <p><a href="#">Sealing, mounting and dismounting</a></p> <hr/> <p><a href="#">Bearing failure and how to prevent it</a></p> <hr/> | <p>Tools</p> <p><a href="#">Bearing Select</a></p> <hr/> <p><a href="#">SimPro Quick</a></p> <hr/> <p><a href="#">Engineering Calculator</a></p> <hr/> <p><a href="#">LubeSelect for SKF greases</a></p> <hr/> <p><a href="#">Heater selection tool</a></p> <hr/> <p><a href="#">Rolling bearings mounting and dismounting instructions</a></p> <hr/> |
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