



# 624-2Z Deep groove ball bearings

Popular item

## Deep groove ball bearings

### Bearing data

[Tolerances](#),

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

[Radial internal clearance](#),

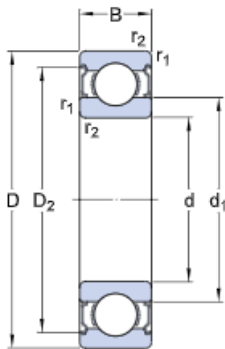
Matched bearing pairs, Stainless steel  
d < 10 mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions](#),

[Tolerances and resultant fits](#)

## Technical specification

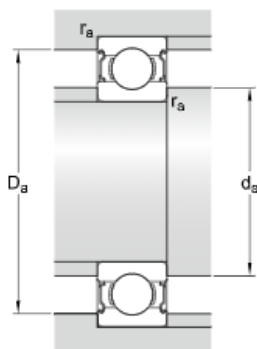


### DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 4 mm        |
| D                | 13 mm       |
| B                | 5 mm        |
| d <sub>1</sub>   | ≈ 6.95 mm   |
| D <sub>2</sub>   | ≈ 11.2 mm   |
| r <sub>1,2</sub> | min. 0.2 mm |

### ABUTMENT DIMENSIONS

|                |              |
|----------------|--------------|
| d <sub>a</sub> | min. 5.8 mm  |
| d <sub>a</sub> | max. 6.6 mm  |
| D <sub>a</sub> | max. 11.2 mm |
| r <sub>a</sub> | max. 0.2 mm  |



## CALCULATION DATA

|                           |       |               |
|---------------------------|-------|---------------|
| Basic dynamic load rating | C     | 0.936 kN      |
| Basic static load rating  | $C_0$ | 0.29 kN       |
| Fatigue load limit        | $P_u$ | 0.012 kN      |
| Reference speed           |       | 110 000 r/min |
| Limiting speed            |       | 53 000 r/min  |
| Calculation factor        | $k_f$ | 0.025         |
| Calculation factor        | $f_0$ | 7.3           |

## MASS

|              |  |          |
|--------------|--|----------|
| Mass bearing |  | 0.003 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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