

## W 627/5-2ZS

### Deep groove ball bearings

#### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

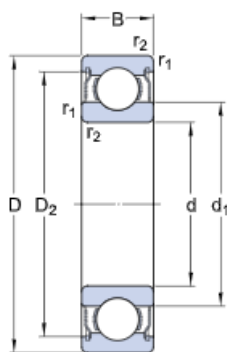
d < 10 mm, Other bearings

#### Bearing interfaces

[Seat tolerances for standard conditions,](#)

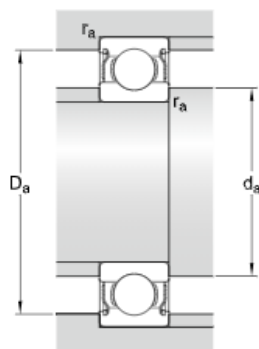
[Tolerances and resultant fits](#)

### Technical specification



#### DIMENSIONS

|                  |             |
|------------------|-------------|
| d                | 5 mm        |
| D                | 8 mm        |
| B                | 2.5 mm      |
| d <sub>1</sub>   | ≈ 5.8 mm    |
| D <sub>2</sub>   | ≈ 7.4 mm    |
| r <sub>1,2</sub> | min. 0.1 mm |



#### ABUTMENT DIMENSIONS

|                |             |
|----------------|-------------|
| d <sub>a</sub> | min. 5.6 mm |
| d <sub>a</sub> | max. 5.7 mm |
| D <sub>a</sub> | max. 7.5 mm |
| r <sub>a</sub> | max. 0.1 mm |

## CALCULATION DATA

|                           |       |              |
|---------------------------|-------|--------------|
| Basic dynamic load rating | $C$   | 0.121 kN     |
| Basic static load rating  | $C_0$ | 0.045 kN     |
| Fatigue load limit        | $P_u$ | 0.002 kN     |
| Reference speed           |       | 140000 r/min |
| Limiting speed            |       | 70000 r/min  |
| Calculation factor        | $k_r$ | 0.015        |
| Calculation factor        | $f_0$ | 7.8          |

## MASS

|              |  |             |
|--------------|--|-------------|
| Mass bearing |  | 0.000407 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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