



# W 6000-2Z 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

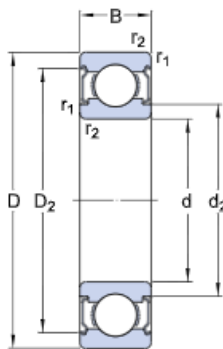
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

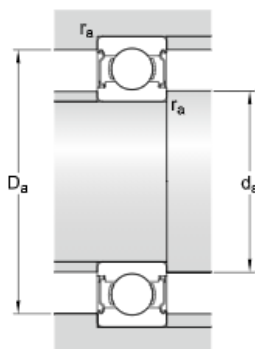


### DIMENSIONS

|           |                    |                   |
|-----------|--------------------|-------------------|
| d         | 10 mm              | Bore diameter     |
| D         | 26 mm              | Outside diameter  |
| B         | 8 mm               | Width             |
| $d_2$     | $\approx 13.9$ mm  | Recess diameter   |
| $D_2$     | $\approx 22.38$ mm | Recess diameter   |
| $r_{1,2}$ | min. 0.3 mm        | Chamfer dimension |

### ABUTMENT DIMENSIONS

|                        |                                   |
|------------------------|-----------------------------------|
| $d_{\xi}$ min. 12 mm   | Diameter of shaft abutment        |
| $d_{\xi}$ max. 13.5 mm | Diameter of shaft abutment        |
| $D_{\xi}$ max. 24 mm   | Diameter of housing abutment      |
| $r_a$ max. 0.3 mm      | Radius of shaft or housing fillet |



## CALCULATION DATA

|                |              |                           |
|----------------|--------------|---------------------------|
| C              | 3.97 kN      | Basic dynamic load rating |
| C <sub>0</sub> | 1.96 kN      | Basic static load rating  |
| P <sub>u</sub> | 0.083 kN     | Fatigue load limit        |
|                | 67 000 r/min | Reference speed           |
|                | 32 000 r/min | Limiting speed            |
| k <sub>r</sub> | 0.03         | Minimum load factor       |
| f <sub>0</sub> | 12.4         | Calculation factor        |

## MASS

|          |              |
|----------|--------------|
| 0.018 kg | Mass bearing |
|----------|--------------|

## TOLERANCE CLASS

|        |                        |
|--------|------------------------|
| Normal | Dimensional tolerances |
| Normal | Radial run-out         |