

# 6200-2Z Deep groove ball bearings

- Popular item

- SKF Explorer

## Deep groove ball bearings

### Bearing data

[Tolerances,](#)

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

[Radial internal clearance,](#)

Matched bearing pairs, Stainless steel

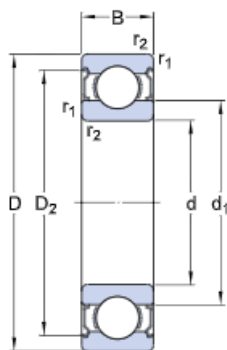
$d < 10$  mm, Other bearings

### Bearing interfaces

[Seat tolerances for standard conditions,](#)

[Tolerances and resultant fits](#)

## Technical specification

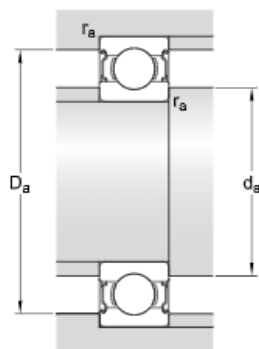


### DIMENSIONS

|           |                    |                   |
|-----------|--------------------|-------------------|
| d         | 10 mm              | Bore diameter     |
| D         | 30 mm              | Outside diameter  |
| B         | 9 mm               | Width             |
| $d_1$     | $\approx 17$ mm    | Shoulder diameter |
| $D_2$     | $\approx 24.72$ mm | Recess diameter   |
| $r_{1,2}$ | min. 0.6 mm        | Chamfer dimension |

### ABUTMENT DIMENSIONS

|                             |                                   |
|-----------------------------|-----------------------------------|
| $d_{\epsilon}$ min. 14.2 mm | Diameter of shaft abutment        |
| $d_{\epsilon}$ max. 16.9 mm | Diameter of shaft abutment        |
| $D_{\epsilon}$ max. 25.8 mm | Diameter of housing abutment      |
| $r_a$ max. 0.6 mm           | Radius of shaft or housing fillet |



## CALCULATION DATA

|                |              |                           |
|----------------|--------------|---------------------------|
| C              | 5.4 kN       | Basic dynamic load rating |
| C <sub>0</sub> | 2.36 kN      | Basic static load rating  |
| P <sub>u</sub> | 0.1 kN       | Fatigue load limit        |
|                | 56 000 r/min | Reference speed           |
|                | 28 000 r/min | Limiting speed            |
| k <sub>r</sub> | 0.025        | Minimum load factor       |
| f <sub>0</sub> | 13           | Calculation factor        |

## MASS

|          |              |
|----------|--------------|
| 0.034 kg | Mass bearing |
|----------|--------------|

## TOLERANCE CLASS

|    |                        |
|----|------------------------|
| P6 | Dimensional tolerances |
| P5 | Radial run-out         |