



# 61822-2RZ 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

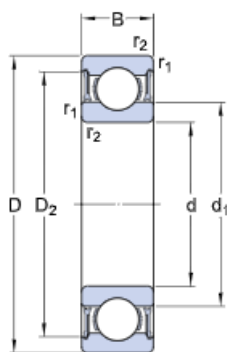
$d < 10$  mm, Other bearings

### Bearing interfaces

#### Seat tolerances for standard conditions,

#### Tolerances and resultant fits

## Technical specification

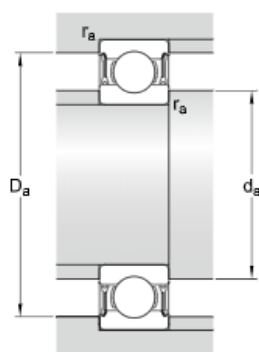


## DIMENSIONS

|           |                     |                   |
|-----------|---------------------|-------------------|
| d         | 110 mm              | Bore diameter     |
| D         | 140 mm              | Outside diameter  |
| B         | 16 mm               | Width             |
| $d_1$     | $\approx 118.6$ mm  | Shoulder diameter |
| $D_2$     | $\approx 134.05$ mm | Recess diameter   |
| $r_{1,2}$ | min. 1 mm           | Chamfer dimension |

## ABUTMENT DIMENSIONS

|                        |        |                                   |
|------------------------|--------|-----------------------------------|
| $d_{\varepsilon}$ min. | 115 mm | Diameter of shaft abutment        |
| $d_{\varepsilon}$ max. | 118 mm | Diameter of shaft abutment        |
| $D_i$ max.             | 135 mm | Diameter of housing abutment      |
| $r_a$ max.             | 1 mm   | Radius of shaft or housing fillet |



## CALCULATION DATA

|                |             |                           |
|----------------|-------------|---------------------------|
| C              | 28.1 kN     | Basic dynamic load rating |
| C <sub>0</sub> | 26 kN       | Basic static load rating  |
| P <sub>u</sub> | 1.25 kN     | Fatigue load limit        |
|                | 9 500 r/min | Reference speed           |
|                | 4 500 r/min | Limiting speed            |
| k <sub>r</sub> | 0.015       | Minimum load factor       |
| f <sub>0</sub> | 13.6        | Calculation factor        |

## MASS

|        |              |
|--------|--------------|
| 0.6 kg | Mass bearing |
|--------|--------------|

## TOLERANCE CLASS

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