

Image may differ from product. See technical specification for details.

## 6202-2Z

### Deep groove ball bearing with seals or shields

Single row deep groove ball bearings with seals or shields are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Integral sealing prolongs bearing service life
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

## Prezentare generală

### Dimensions

Bore diameter	15 mm
Outside diameter	35 mm
Width	11 mm

### Performance

Basic dynamic load rating	8.06 kN
Basic static load rating	3.75 kN
Reference speed	43 000 r/min
Limiting speed	22 000 r/min
SKF performance class	SKF Explorer

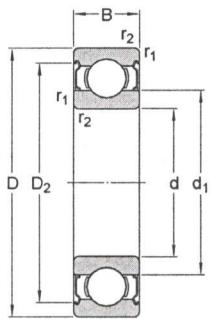
### Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Without
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.17 kg CO <sub>2</sub> e

### Logistics

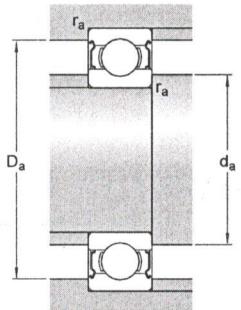
Product net weight	0.0465 kg
eClass code	23-05-08-01
UNSPSC code	31171504

## Specificație tehnică



### Dimensions

d	15 mm	Bore diameter
$t_{\Delta D_{mp}}$	-0.007 – 0 mm	Deviation limits of mid-range bore diameter
D	35 mm	Outside diameter
$t_{\Delta D_{mp}}$	-0.009 – 0 mm	Deviation limits of mid-range outside diameter
B	11 mm	Width
$t_{\Delta B_s}$	-0.06 – 0 mm	Deviation limits of ring width
$d_1$	$\approx 21.7$ mm	Shoulder diameter
$D_2$	$\approx 30.5$ mm	Recess diameter
$r_{1,2}$	min. 0.6 mm	Chamfer dimension
	P6 and tighter width tolerance	ISO tolerance class for dimensions



### Abutment dimensions

$d_a$	min. 19.2 mm	Diameter of shaft abutment
$d_a$	max. 21.6 mm	Diameter of shaft abutment
$D_a$	max. 30.8 mm	Diameter of housing abutment
$r_a$	max. 0.6 mm	Radius of shaft or housing fillet

## Calculation data

SKF performance class	SKF Explorer	
Basic dynamic load rating	C	8.06 kN
Basic static load rating	$C_0$	3.75 kN
Fatigue load limit	$P_u$	0.16 kN
Reference speed		43 000 r/min
Limiting speed		22 000 r/min
Minimum load factor	$k_r$	0.03
Calculation factor	$f_0$	13

## Tolerances of run-out

Range of section height at inner ring of assembled	$t_{Kia}$	4 $\mu$ m
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bearing

Maximum run-out of inner ring side face to the bore	$t_{SD}$	7 $\mu\text{m}$
Maximum axial run-out of inner ring of assembled bearing	$t_{Sia}$	7 $\mu\text{m}$
Range of section height at outer ring of assembled bearing	$t_{Kea}$	7 $\mu\text{m}$
Perpendicularity of outer ring outside surface	$t_{SD}$	4 $\mu\text{m}$
Maximum axial run-out of outer ring of assembled bearing	$t_{Sea}$	8 $\mu\text{m}$
ISO tolerance class for geometrical tolerances		P5

## Toleranțe și jocuri

### GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal (metric), P6, P5, Normal (inch)
- Radial internal clearance: Classes C2 to C5

