



SKF 623-2RS1

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.

Technical specifications

Dimensions	
Bore diameter	3 mm
Deviation limits of mid-range bore diameter	-0.008..0 mm
Outside diameter	10 mm
Deviation limits of mid-range outside diameter	-0.008..0 mm
Width	4 mm
Deviation limits of ring width	-0.12..0 mm
Shoulder diameter	4.8 mm
Recess diameter	8.2 mm
Chamfer dimension	0.15 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	4.2 mm
Diameter of shaft abutment	5.1 mm
Diameter of housing abutment	8.8 mm
Radius of shaft or housing fillet	0.1 mm

Calculation data	
Basic dynamic load rating	0.54 kN
Basic static load rating	0.18 kN
Fatigue load limit	0.007 kN
Limiting speed	40000 r/min
Minimum load factor	0.03
Calculation factor	7.5

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	10 µm
Range of section height at outer ring of assembled bearing	15 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	0.54 kN
Basic static load rating	0.18 kN
Limiting speed	40000 r/min

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	Seal on both sides
Sealing type	Contact

Lubricant	Grease
Relubrication feature	Without
Indicative carbon footprint for new product	0.006 kg CO ₂ e

Logistics	
Product net weight	0.0016 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

