



SKF 63009-2RS1

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	45 mm
Deviation limits of mid-range bore diameter	-0.012..0 mm
Outside diameter	75 mm
Deviation limits of mid-range outside diameter	-0.013..0 mm
Width	23 mm
Deviation limits of ring width	-0.12..0 mm
Shoulder diameter	54.75 mm
Recess diameter	67.8 mm
Chamfer dimension	1 mm
ISO tolerance class for dimensions	Normal

Abutment dimensions	
Diameter of shaft abutment	50.8 mm
Diameter of shaft abutment	54.7 mm
Diameter of housing abutment	69.2 mm
Radius of shaft or housing fillet	1 mm

Calculation data	
Basic dynamic load rating	20.8 kN
Basic static load rating	14.6 kN
Fatigue load limit	0.64 kN
Limiting speed	5600 r/min
Minimum load factor	0.03
Calculation factor	14.9

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	15 µm
Range of section height at outer ring of assembled bearing	25 µm
ISO tolerance class for geometrical tolerances	Normal

Performance	
Basic dynamic load rating	20.8 kN
Basic static load rating	14.6 kN
Limiting speed	5600 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	1.3 kg CO ₂ e

Logistics	
Product net weight	0.351 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings