



SKF 6202 NR

Deep groove ball bearing with snap ring

Single row deep groove ball bearings with a snap ring groove 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 snap ring, fitted in an annular groove in the outer ring, facilitates axial location of the bearings within their housings.

Technical specifications

Dimensions	
Bore diameter	15 mm
Deviation limits of mid-range bore diameter	-0.007..0 mm
Outside diameter	35 mm
Deviation limits of mid-range outside diameter	-0.009..0 mm
Width	11 mm
Deviation limits of ring width	-0.06..0 mm
Shoulder diameter	21.7 mm
Recess diameter	30.5 mm
Diameter of snap ring groove	33.17 mm
Outside diameter of snap ring	39.7 mm
Width of snap ring groove	1.35 mm
Distance from outer ring side face to snap ring groove	2.06 mm
Width of snap ring	1.12 mm
Bottom radius of snap ring groove	0.4 mm
Chamfer dimension	0.6 mm
ISO tolerance class for dimensions	P6 and tighter width tolerance

Abutment dimensions	
Diameter of shaft abutment	19.2 mm
Diameter of housing abutment	30.8 mm
Diameter of snap ring recess in the housing	41 mm
Width of snap ring recess in the housing	1.5 mm
Distance from outer ring side face to snap ring back face	3.18 mm
Radius of shaft or housing fillet	0.6 mm

Calculation data	
SKF performance class	SKF Explorer
Basic dynamic load rating	8.06 kN
Basic static load rating	3.75 kN
Fatigue load limit	0.16 kN
Reference speed	43000 r/min
Limiting speed	28000 r/min
Minimum load factor	0.03
Calculation factor	13

Tolerances of run-out	
Range of section height at inner ring of assembled bearing	4 µm
Maximum run-out of inner ring side face to the bore	7 µm
Maximum axial run-out of inner ring of assembled bearing	7 µm
Range of section height at outer ring of assembled bearing	7 µm
Perpendicularity of outer ring outside surface	4 µm
Maximum axial run-out of outer ring of assembled bearing	8 µm
ISO tolerance class for geometrical tolerances	P5

Included products	
Snap ring	SP 35

Performance	
Basic dynamic load rating	8.06 kN
Basic static load rating	3.75 kN
Reference speed	43000 r/min
Limiting speed	28000 r/min
SKF performance class	SKF Explorer

Properties	
Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Snap ring (fitted)
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without
Indicative carbon footprint for new product	0.17 kg CO ₂ e

Logistics	
Product net weight	0.047 kg
eClass code	23-05-08-01
UNSPSC code	31171504

SKF drawings

