



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

W 638/5 R-2Z

Stainless steel deep groove ball bearing with flanged outer ring and integral sealing

Stainless steel single row deep groove ball bearings with flanged outer ring and seals or shields on both sides provide greater chemical and corrosion resistance. As with deep groove ball bearings generally, they 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 other bearing types. The flanged outer ring facilitates axial location of the bearings within their housings. The integral sealing can significantly prolong bearing service life because it keeps lubricant in the bearings and contaminants out.

- Greater chemical and corrosion resistance
- Flanged outer ring facilitates axial location of the bearings within their housings
- Integral sealing prolongs bearing service life
- Typical benefits of single row deep groove ball bearings

Overview

Dimensions

Bore diameter	5 mm
Outside diameter	11 mm
Width	5 mm

Performance

Basic dynamic load rating	0.403 kN
Basic static load rating	0.143 kN
Reference speed	120 000 r/min
Limiting speed	60 000 r/min

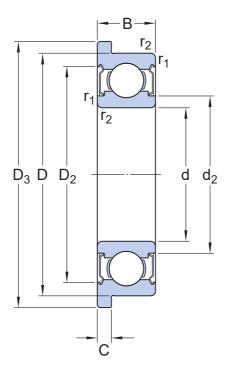
Properties

Filling slots	Without
Number of rows	1
Locating feature, bearing outer ring	Flange
Bore type	Cylindrical
Cage	Sheet metal
Matched arrangement	No
Radial internal clearance	CN
Material, bearing	Stainless steel
Coating	Without
Sealing	Shield on both sides
Sealing type	Non-contact
Lubricant	Grease
Relubrication feature	Without

Logistics

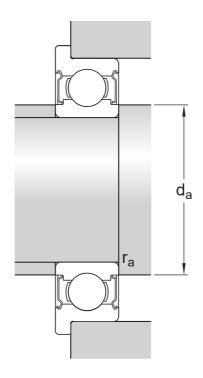
Product net weight	0.002 kg
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	5 mm	Bore diameter
D	11 mm	Outside diameter
В	5 mm	Width
d ₂	≈ 6.2 mm	Recess diameter
D ₂	≈ 9.9 mm	Recess diameter
D ₃	12.5 mm	Flange diameter
С	1 mm	Flange width
r _{1,2}	min. 0.15 mm	Chamfer dimension



Abutment dimensions

da	min. 5.9 mm	Diameter of shaft abutment
da	max. 6.1 mm	Diameter of shaft abutment
r _a	max. 0.15 mm	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	С	0.403 kN
Basic static load rating	C ₀	0.143 kN
Fatigue load limit	P_{u}	0.006 kN
Reference speed		120 000 r/min
Limiting speed		60 000 r/min
Minimum load factor	k _r	0.02
Calculation factor	f ₀	7.1

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

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

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fits

More Information

Engineering Tools Product details information Single row deep groove ball bearings SKF Product select Principles of rolling bearing selection Stainless steel deep groove ball SimPro Quick General bearing knowledge Bearing Frequency Calculator Single row deep groove ball bearings Bearing selection process with filling slots LubeSelect for SKF greases Bearing interfaces Double row deep groove ball bearings Heater selection tool Seat tolerances for standard General bearing specifications conditions Loads Selecting internal clearance Temperature limits Lubrication Permissible speed Sealing, mounting and dismounting Designation system Bearing failure and how to prevent it



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