



# W 623 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	0.118 in
Outside diameter	0.394 in
Width	0.157 in

### Performance

Basic dynamic load rating	80 lbf
Basic static load rating	25 lbf
Limiting speed	70 000 r/min
Reference speed	140 000 r/min

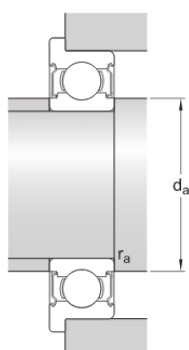
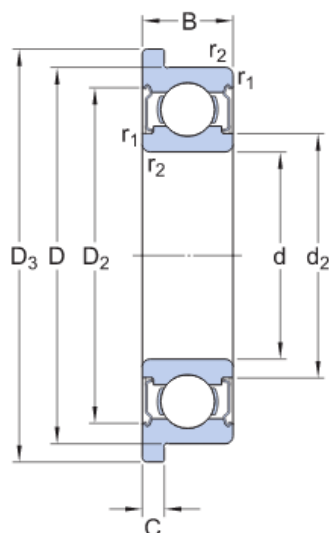
### Properties

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

Sealing type

Non-contact

# Technical Specification



## Dimensions

d	0.118 in	Bore diameter
D	0.394 in	Outside diameter
B	0.157 in	Width
d <sub>2</sub>	≈ 0.171 in	Recess diameter
D <sub>2</sub>	≈ 0.314 in	Recess diameter
D <sub>3</sub>	0.453 in	Flange diameter
C	0.039 in	Flange width
r <sub>1,2</sub>	min. 0.006 in	Chamfer dimension

## Abutment dimensions

d <sub>a</sub> min.	0.154 in	Diameter of shaft abutment
d <sub>a</sub> max.	0.169 in	Diameter of shaft abutment
r <sub>a</sub> max.	0.006 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	80 lbf
Basic static load rating	C <sub>0</sub>	25 lbf
Fatigue load limit	P <sub>u</sub>	1.1 lbf
Reference speed		140 000 r/min
Limiting speed		70 000 r/min
Minimum load factor	k <sub>r</sub>	0.03
Calculation factor	f <sub>0</sub>	6.3

## Mass

Mass bearing	0.004 lb
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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