



# W 6302

## Stainless steel deep groove ball bearing

Stainless steel single row deep groove ball bearings 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 many other bearing types.

- Greater chemical and corrosion resistance
- Simple, versatile and robust design
- Low friction and high-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

## Overview

### Dimensions

Bore diameter	0.591 in
Outside diameter	1.654 in
Width	0.512 in

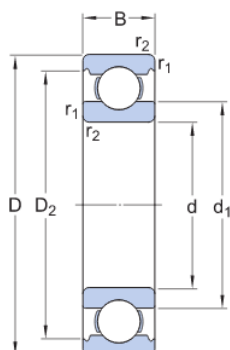
### Performance

Basic dynamic load rating	2 237 lbf
Basic static load rating	1 214 lbf
Limiting speed	26 000 r/min
Reference speed	40 000 r/min

### Properties

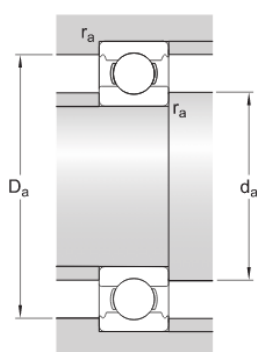
Bore type	Cylindrical
Cage	Sheet metal
Coating	Without
Filling slots	Without
Locating feature, bearing outer ring	None
Lubricant	None
Matched arrangement	No
Material, bearing	Stainless steel
Number of rows	1
Radial internal clearance	CN
Relubrication feature	Without
Sealing	Without

# Technical Specification



## Dimensions

d	0.591 in	Bore diameter
D	1.654 in	Outside diameter
B	0.512 in	Width
d <sub>1</sub>	≈ 0.965 in	Shoulder diameter
D <sub>2</sub>	≈ 1.449 in	Recess diameter
r <sub>1,2</sub>	min. 0.039 in	Chamfer dimension



## Abutment dimensions

d <sub>a</sub>	min. 0.787 in	Diameter of shaft abutment
D <sub>a</sub>	max. 1.476 in	Diameter of housing abutment
r <sub>a</sub>	max. 0.039 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	2 237 lbf
Basic static load rating	C <sub>0</sub>	1 214 lbf
Fatigue load limit	P <sub>u</sub>	52 lbf
Reference speed		40 000 r/min
Limiting speed		26 000 r/min
Minimum load factor	k <sub>r</sub>	0.035
Calculation factor	f <sub>0</sub>	12.3

## Mass

Mass bearing	0.17 lb
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## Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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