



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

## 619/9

### Deep groove ball bearing

Single row deep groove ball bearings 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.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

# Overview

## Dimensions

Bore diameter	0.354 in
Outside diameter	0.787 in
Width	0.236 in

## Performance

Basic dynamic load rating	526 lbf
Basic static load rating	220 lbf
Reference speed	80 000 r/min
Limiting speed	50 000 r/min

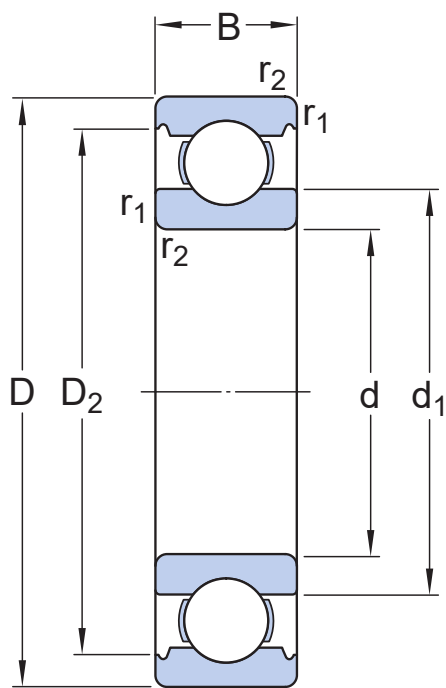
## Properties

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

## Logistics

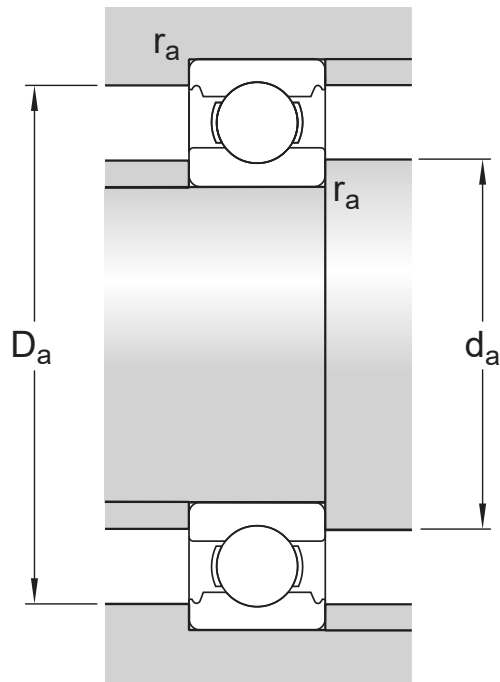
Product net weight	0.01543 lb
eClass code	23-05-08-01
UNSPSC code	31171504

Technical specification



Dimensions

d	0.354 in	Bore diameter
t <sub>Δdmp</sub>	-7 – 0 μm	Deviation limits of mid-range bore diameter
D	0.787 in	Outside diameter
t <sub>ΔDmp</sub>	-8 – 0 μm	Deviation limits of mid-range outside diameter
B	0.236 in	Width
t <sub>ΔBs</sub>	-120 – 0 μm	Deviation limits of ring width
d <sub>1</sub>	≈ 0.457 in	Shoulder diameter
r <sub>1,2</sub>	min. 0.012 in	Chamfer dimension
P6		ISO tolerance class for dimensions



## Abutment dimensions

$d_a$	min. 0.433 in	Diameter of shaft abutment
$D_a$	max. 0.709 in	Diameter of housing abutment
$r_a$	max. 0.012 in	Radius of shaft or housing fillet

## Calculation data

Basic dynamic load rating	C	526 lbf
Basic static load rating	$C_0$	220 lbf
Fatigue load limit	$P_u$	9.7 lbf
Reference speed		80 000 r/min
Limiting speed		50 000 r/min

## Tolerances of run-out

Range of section height at inner ring of assembled bearing	$t_{kia}$	6 $\mu\text{m}$
Range of section height at outer ring of assembled bearing	$t_{kea}$	9 $\mu\text{m}$
ISO tolerance class for geometrical tolerances		P6

## Tolerances and clearances

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### 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

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

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