



EE 2 TN9

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	0.25 in
Outside diameter	0.75 in
Width	0.219 in

Performance

Basic dynamic load rating	632 lbf
Basic static load rating	243 lbf
Limiting speed	50 000 r/min
Reference speed	70 000 r/min

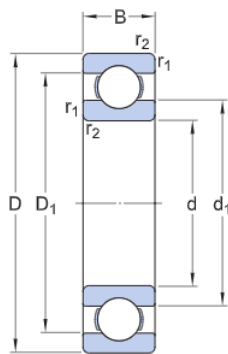
Properties

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

Technical Specification

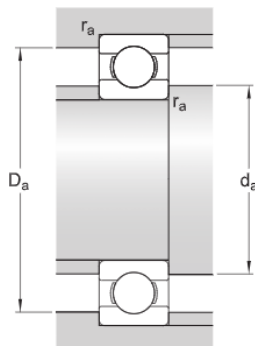
Aftermarket only

Yes



Dimensions

d	0.25 in	Bore diameter
D	0.75 in	Outside diameter
B	0.219 in	Width
d ₁	≈ 0.388 in	Shoulder diameter
D ₁	≈ 0.612 in	Shoulder diameter
r _{1,2}	min. 0.016 in	Chamfer dimension



Abutment dimensions

d _a	min. 0.339 in	Diameter of shaft abutment
D _a	max. 0.661 in	Diameter of housing abutment
r _a	max. 0.016 in	Radius of shaft or housing fillet

Calculation data

Basic dynamic load rating	C	632 lbf
Basic static load rating	C ₀	243 lbf
Fatigue load limit	P _u	10 lbf
Reference speed		70 000 r/min

Limiting speed		50 000 r/min
Minimum load factor	k_r	0.025
Calculation factor	f_0	13

Mass

Mass bearing	0.017 lb
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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