



The Timken Company
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Part Number S7KDD, Fafnir® Miniature Ball Bearings (S..K)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm



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Specifications	
Design Units	METRIC
Ball Type	STEEL
Manufacturing Part Number	S7KDD Z1 FS50000;

Dimensions	
d - Bore	0.6250 in



D - Outer Diameter 1.375 in
34.93 mm

Bearing Width 0.344 in
8.73 mm

Basic Load Ratings

C0 - Static Radial Rating 750 lbf
3320 N

Ce - Dynamic Radial Rating 1680 lbf
7490 N

Factors

Limiting Speed (Grease) 11818 rpm

Limiting Speed (Oil) 13788 rpm

Abutment and Fillet Dimensions

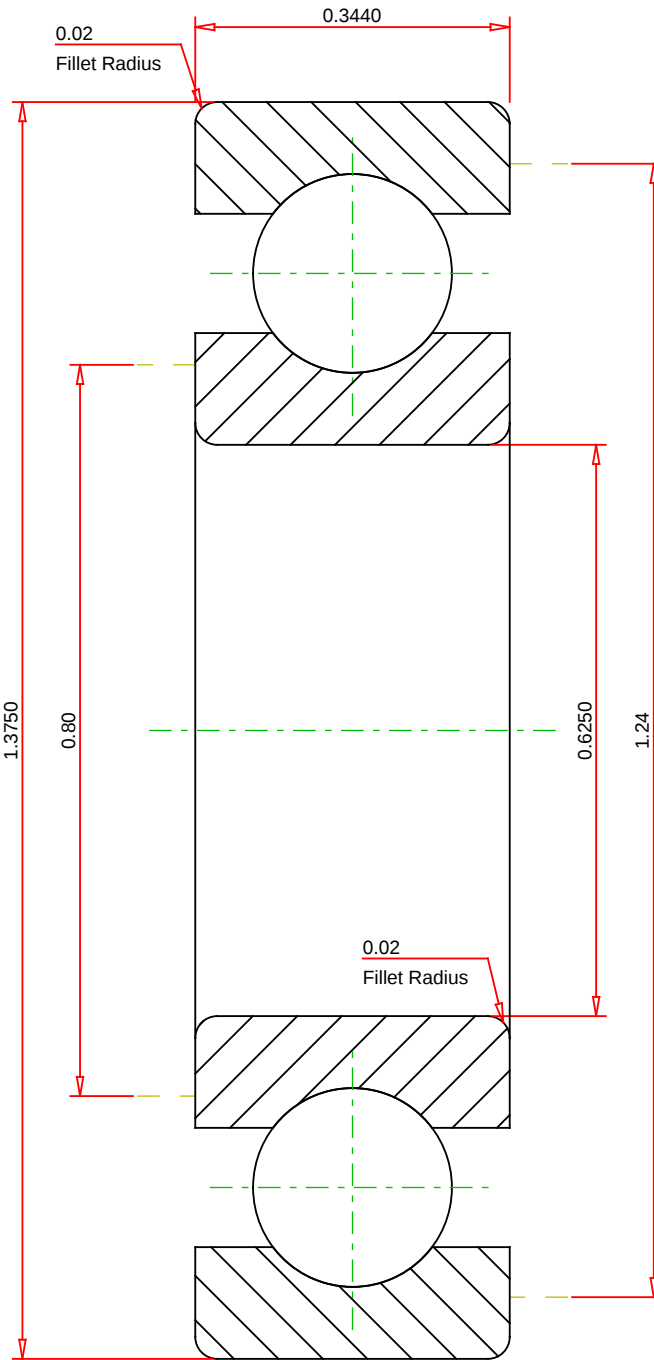
R - Inner Ring "To Clear" Radius 0.024 in
0.61 mm

r - Outer Ring "To Clear" Radius¹ 0.024 in
0.61 mm

da - Inner Ring Backing Diameter 0.8000 in
20.32 mm

Da - Outer Ring Backing Diameter 1.2400 in
31.50 mm

¹ These maximum fillet radii will be cleared by the bearing corners.



IMPERIAL UNITS

Number of Balls Per Row Bearing Weight	8 0.07 lb	TIMKEN®		S7KDD Fafnir® Miniature Ball Bearings (S..K)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating	1680 lbf
				Static Radial Rating	750 lbf

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

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