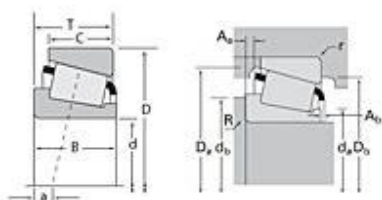


# TIMKEN

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## Timken Part Number LM67049A - LM67010, Tapered Roller Bearings - TS (Tapered Single) Imperial

This is the most basic and most widely used type of tapered roller bearing. It consists of two main separable parts: the cone (inner ring) assembly and the cup (outer ring). It is typically mounted in opposing pairs on a shaft.



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### Specifications

<b>Series</b>	LM67000
<b>Cone Part Number</b>	LM67049A
<b>Cup Part Number</b>	LM67010
<b>Design Units</b>	Imperial
<b>Bearing Weight</b>	0.4 lb 0.200 Kg
<b>Cage Type</b>	Stamped Steel

### Dimensions

<b>d - Bore</b>	1.2500 in 31.750 mm
<b>D - Cup Outer Diameter</b>	2.3280 in 59.131 mm

<b>B - Cone Width</b>	0.6600 in 16.764 mm
<b>C - Cup Width</b>	0.4650 in 11.811 mm
<b>T - Bearing Width</b>	0.6250 in 15.875 mm

#### Abutment and Fillet Dimensions

<b>R - Cone Backface "To Clear" Radius<sup>1</sup></b>	0.03 in 0.760 mm
<b>r - Cup Backface "To Clear" Radius<sup>2</sup></b>	0.050 in 1.27 mm
<b>da - Cone Frontface Backing Diameter</b>	1.42 in 36.07 mm
<b>db - Cone Backface Backing Diameter</b>	1.46 in 37.08 mm
<b>Da - Cup Frontface Backing Diameter</b>	2.24 in 55.90 mm
<b>Db - Cup Backface Backing Diameter</b>	2.05 in 52.07 mm
<b>Ab - Cage-Cone Frontface Clearance</b>	0.05 in 1.3 mm
<b>Aa - Cage-Cone Backface Clearance</b>	0.01 in 0.3 mm
<b>a - Effective Center Location<sup>3</sup></b>	-0.12 in -3.00 mm

#### Basic Load Ratings

<b>C90 - Dynamic Radial Rating (90 million revolutions)<sup>4</sup></b>	2720 lbf 12100 N
<b>C1 - Dynamic Radial Rating (1 million revolutions)<sup>5</sup></b>	10500 lbf 46700 N
<b>C0 - Static Radial Rating</b>	10000 lbf 44600 N
<b>C<sub>a90</sub> - Dynamic Thrust Rating (90 million revolutions)<sup>6</sup></b>	1920 lbf 8550 N

## Factors

<b>K - Factor<sup>7</sup></b>	1.42
<b>e - ISO Factor<sup>8</sup></b>	0.41
<b>Y - ISO Factor<sup>9</sup></b>	1.46
<b>G1 - Heat Generation Factor (Roller-Raceway)</b>	12.8
<b>G2 - Heat Generation Factor (Rib-Roller End)</b>	9.93
<b>Cg - Geometry Factor</b>	0.0612

<sup>1</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>2</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>3</sup> Negative value indicates effective center inside cone backface.

<sup>4</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values.

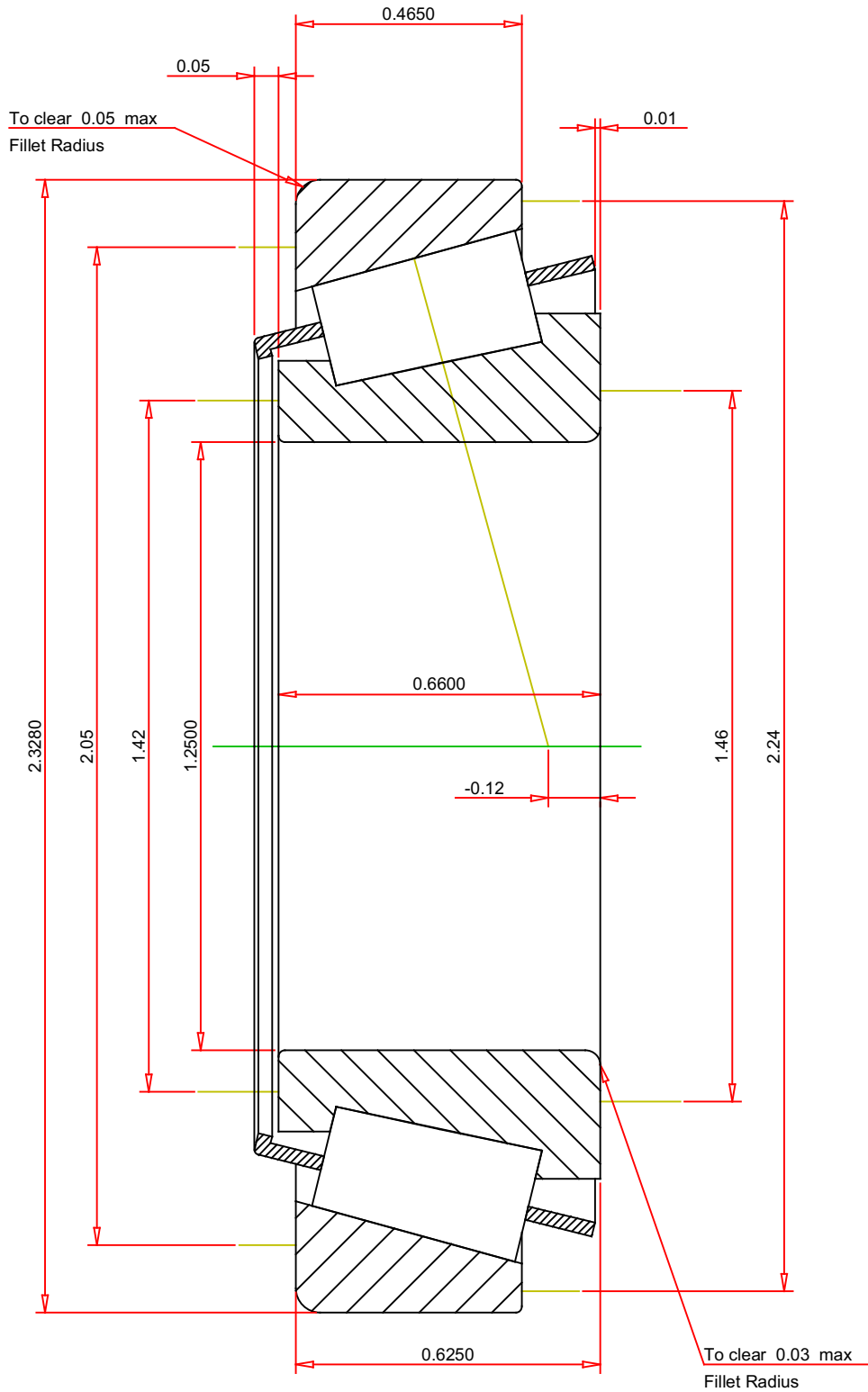
<sup>5</sup> Based on  $1 \times 10^6$  revolutions  $L_{10}$  life, for the ISO life calculation method.

<sup>6</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values for a single-row,  $C_{90(2)}$  is the two-row radial value.

<sup>7</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>8</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>9</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.



IMPERIAL UNITS

ISO Factor - e	0.41
ISO Factor - Y	1.46
Bearing Weight	0.4 lb
Number of Rollers Per Row	19
Effective Center Location	-0.12 inch

**TIMKEN**®

**THE TIMKEN COMPANY**  
NORTH CANTON, OHIO USA

**LM67049A - LM67010**  
TS BEARING ASSEMBLY

K Factor	1.42
Dynamic Radial Rating - C90	2720 lbf
Dynamic Thrust Rating - Ca90	1920 lbf
Static Radial Rating - C0	10000 lbf
Dynamic Radial Rating - C1	10500 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.

**FOR DISCUSSION ONLY**