


The Timken Company

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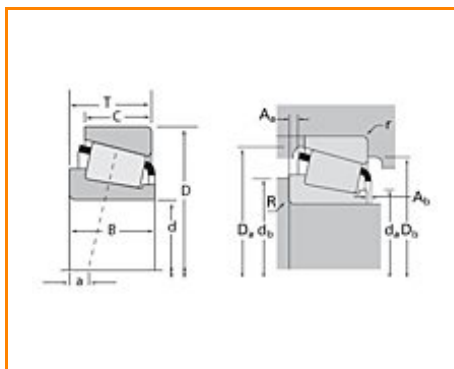
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Timken Part Number LM67048 - LM67010, Tapered Roller Bearings - TS (Tapered Single)

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.


[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

Series	LM67000
Cone Part Number	LM67048
Cup Part Number	LM67010
Design Units	Imperial
Bearing Weight	0.200 Kg 0.4 lb
Cage Type	Stamped Steel

Dimensions

d - Bore	31.750 mm 1.2500 in
D - Cup Outer Diameter	59.131 mm 2.3280 in
B - Cone Width	16.764 mm 0.6600 in
C - Cup Width	11.811 mm 0.4650 in
T - Bearing Width	15.875 mm 0.6250 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius¹	3.560 mm 0.14 in
r - Cup Backface "To Clear" Radius²	1.27 mm 0.050 in
da - Cone Frontface Backing Diameter	36.07 mm 1.42 in
db - Cone Backface Backing Diameter	42.42 mm 1.67 in
Da - Cup Frontface Backing Diameter	55.90 mm 2.24 in
Db - Cup Backface Backing Diameter	52.07 mm 2.05 in
Ab - Cage-Cone Frontface Clearance	1.3 mm 0.05 in
Aa - Cage-Cone Backface Clearance	0.3 mm 0.01 in
a - Effective Center Location³	-3 mm -0.12 in

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁴	12100 N 2720 lbf
C1 - Dynamic Radial Rating (1 million revolutions)⁵	46700 N 10500 lbf
C0 - Static Radial Rating	44600 N 10000 lbf
C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁶	8550 N 1920 lbf

Factors

K - Factor⁷	1.42
e - ISO Factor⁸	0.41
Y - ISO Factor⁹	1.46
G1 - Heat Generation Factor (Roller-Raceway)	12.8
G2 - Heat Generation Factor (Rib-Roller End)	9.93
Cg - Geometry Factor	0.0612

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

² These maximum fillet radii will be cleared by the bearing corners.

³ Negative value indicates effective center inside cone backface.

⁴ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

⁵ Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.

⁶ Based on 90×10^6 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.

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

⁸ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction

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

