

# LM67048/LM67010 Tapered Roller Bearings

LM67048/LM67010 sizes 31,75x59,13x15,88 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.

LM67048/LM67010 Timken

4T-LM67048/LM67010 [Tapered roller bearing](#), pressed steel cage NTN

LM 67048/010 SKF Explorer Tapered roller bearings, single row SKF

Tapered Roller Bearings - TS (Tapered Single) Imperial > M67048/ LM67010 KOYO

Specifications-- 4T-LM67048/LM67010 Tapered roller bearing, pressed steel cage

Series LM67000

Cone Part Number LM67048

Cup Part Number LM67010

Design Units Imperial

Bearing Weight 0.4 lb

Cage Type Stamped Steel

Dimensions

d - Bore 1.2500 in

D - Cup Outer Diameter 2.3280 in

B - Cone Width 0.6600 in

C - Cup Width 0.4650 in

T - Bearing Width 0.6250 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius1 0.14 in

r - Cup Backface "To Clear" Radius<sup>2</sup> 0.050 in

da - Cone Frontface Backing Diameter 1.42 in

db - Cone Backface Backing Diameter 1.67 in

Da - Cup Frontface Backing Diameter 2.24 in

Db - Cup Backface Backing Diameter 2.05 in

Ab - Cage-Cone Frontface Clearance 0.05 in

Aa - Cage-Cone Backface Clearance 0.01 in

a - Effective Center Location<sup>3</sup> -0.12 in

#### Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)<sup>4</sup> 2720 lbf / 12100 N

C1 - Dynamic Radial Rating (1 million revolutions)<sup>5</sup> 10500 lbf / 46700 N

C0 - Static Radial Rating 10000 lbf / 44600 N

Ca90 - Dynamic Thrust Rating (90 million revolutions)<sup>6</sup> 1920 lbf / 8550 N

#### Factors

K - Factor<sup>7</sup> 1.42

e - ISO Factor<sup>8</sup> 0.41

Y - ISO Factor<sup>9</sup> ?1.46

G1 - Heat Generation Factor (Roller-Raceway) 12.8

G2 - Heat Generation Factor (Rib-Roller End) 9.93

Cg - Geometry Factor<sup>10</sup> 0.0612

LM67048/LM67010 Timken

d 31.75 mm

D 59.13 mm

B 16.76 mm

C 11.81 mm

T 15.88 mm

d1 45.5 mm

a 13.08 mm

e 0.41

Y2 1.46

Y0 0.8

Mass 0.18 kg

Brand NTN

Product performance

Dynamic load, C 34.5 kN

Rating life coefficient, A2 1.4

Static load, C0 41 kN

Fatigue limit load, Cu 5 kN

Nlim (oil) 8,400 Tr/min

Nlim (grease) 6,300 Tr/min

Min operating temperature, Tmin -40 °C

Max operating temperature, Tmax 120 °C

Characteristic cage frequency, FTF 0.43 Hz

Characteristic rolling element frequency, BSF 7.2 Hz

Characteristic outer ring frequency, BPF0 8.25 Hz

Characteristic inner ring frequency, BPFI 10.75 Hz

Abutment dimensions

ra max 3.94 mm

r1a max 1.3 mm





