



NACHI BEARINGS TRAINING INDUSTRY

TYPE TS



HM259049 Tapered Roller Bearings

Bearing No. HM259049

HM259049 Bearing 2D drawings and 3D CAD models

Series	HM259000
Cone Part Number	HM259049
Design Units	Imperial
Cage Type	Pin-Type
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	656000 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	170000 lbf
d	12.5000 in
B - Cone Width	3.3750 in
R - Cone Backface To Clear Radius ³	0.14 in
da - Cone Frontface Backing Diameter	13.27 in
db - Cone Backface Backing Diameter	13.43 in
Ab - Cage-Cone Frontface Clearance	0.21 in
Aa - Cage-Cone Backface Clearance	0.19 in
a - Effective Center Location ⁴	-0.19 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	97800 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	377000 lbf
C0 - Static Radial Rating	706000 lbf



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C_{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	56000 lbf
K - Factor ⁸	1.74
G1 - Heat Generation Factor (Roller-Raceway)	2944.6
G2 - Heat Generation Factor (Rib-Roller End)	303.9
Cg - Geometry Factor	0.186