



Toyana BEARING-SINGAPORE (PTE)LTD.

TYPE TS



HM259049 Tapered Roller Bearings

Bearing No. HM259049

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|---|------------|
| 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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HM259049 Bearing 2D drawings and 3D CAD models



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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 |