



RAA Bearing Trading Co., Ltd.

TYPE TS



timken hm212047 Angular Contact Ball Bearings

Bearing No. hm212047

Cone Part Number	HM212047
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	104000 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	27100 lbf
d	2.5000 in
B - Cone Width	1.5100 in
R - Cone Backface To Clear Radius ³	0.280 in
da - Cone Frontface Backing Diameter	2.87 in
db - Cone Backface Backing Diameter	3.43 in
Ab - Cage-Cone Frontface Clearance	0.15 in
Aa - Cage-Cone Backface Clearance	0.07 in
a - Effective Center Location ⁴	-0.43 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	15600 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	60000 lbf
C0 - Static Radial Rating	62700 lbf

hm212047 Bearing 2D drawings and 3D CAD models



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C_{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	8990 lbf
K - Factor ⁸	1.73
G1 - Heat Generation Factor (Roller-Raceway)	92.2
G2 - Heat Generation Factor (Rib-Roller End)	18.1
Cg - Geometry Factor	0.0759