

KOYO 47TS845644 tapered roller bearings

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Series	435
Cone Part Number	435
Cup Part Number	432-B
Design Units	Imperial
Bearing Weight	2.2 lb
Cage Type	Stamped Steel
d	1.7500 in
D	3.7500 in
D1 – Flange Outer Diameter	3.9640 in
B – Cone Width	1.1772 in
C – Cup Width	0.8750 in
C1 – Cup Flange Width	0.2188 in
T1 – Bearing Width	1.0938 in
T – Bearing Width to Flange	0.4376 in
R – Cone Backface To Clear Radius1	0.03 in
r – Cup Backface To Clear Radius2	0.090 in
da – Cone Frontface Backing Diameter	2.01 in
db – Cone Backface Backing Diameter	2.05 in
Da – Cup Frontface Backing Diameter	3.46 in
Ab – Cage-Cone Frontface Clearance	0.05 in
Aa – Cage-Cone Backface Clearance	0.04 in
a – Effective Center Location3	-0.36 in

C90 – Dynamic Radial Rating (90 million revolutions) ⁴	7400 lbf
C1 – Dynamic Radial Rating (1 million revolutions) ⁵	28500 lbf
C0 – Static Radial Rating	32400 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) ⁶	3600 lbf
K – Factor ⁷	2.05
e – ISO Factor ⁸	0.28
Y – ISO Factor ⁹	2.11
G1 – Heat Generation Factor (Roller-Raceway) ¹⁰	42.5
G2 – Heat Generation Factor (Rib-Roller End)	11.3
Cg – Geometry Factor ¹¹	0.0805