

# Timken 510077 angular contact ball bearings

Timken 510077 angular contact ball bearings Needs Analysis , Manufacturing Service . Get 13000 Series Your Free.

Series	13000
Cone Part Number	13175
Cup Part Number	13318
Design Units	Imperial
Bearing Weight	0.4 Kg
Cage Type	Stamped Steel
d	44.450 mm
D	80.963 mm
B – Cone Width	17.463 mm
C – Cup Width	14.288 mm
B	19.050 mm
R – Cone Backface To Clear Radius <sup>1</sup>	0.13 mm
r – Cup Backface To Clear Radius <sup>2</sup>	1.52 mm
da – Cone Frontface Backing Diameter	50.04 mm
db – Cone Backface Backing Diameter	50.04 mm
Da – Cup Frontface Backing Diameter	76.96 mm
Db – Cup Backface Backing Diameter	71.88 mm
Ab – Cage-Cone Frontface Clearance	2.8 mm
Aa – Cage-Cone Backface Clearance	1 mm
a – Effective Center Location <sup>3</sup>	0.8 mm
C90 – Dynamic Radial Rating (90 million revolutions) <sup>4</sup>	2960 lbf

C1 – Dynamic Radial Rating (1 million revolutions) <sup>5</sup>	11400 lbf
C0 – Static Radial Rating	13700 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>6</sup>	2680 lbf
K – Factor <sup>7</sup>	1.11
e – ISO Factor <sup>8</sup>	0.53
Y – ISO Factor <sup>9</sup>	1.14
G1 – Heat Generation Factor (Roller-Raceway)	23
G2 – Heat Generation Factor (Rib-Roller End)	15.4
Cg – Geometry Factor	0.0799