

# NACHI 7312BDT angular contact ball bearings

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|                                      |               |
|--------------------------------------|---------------|
| Series                               | 49500         |
| Cone Part Number                     | 49576         |
| Cup Part Number                      | 49520-B       |
| Design Units                         | Imperial      |
| Bearing Weight                       | 2.9 lb        |
| Cage Type                            | Stamped Steel |
| d                                    | 1.7500 in     |
| D                                    | 4.0000 in     |
| D1 – Flange Outer Diameter           | 4.2148 in     |
| B – Cone Width                       | 1.2500 in     |
| C – Cup Width                        | 1.0000 in     |
| C1 – Cup Flange Width                | 0.2188 in     |
| T1 – Bearing Width                   | 1.250 in      |
| T – Bearing Width to Flange          | 0.4688 in     |
| R – Cone Backface To Clear Radius1   | 0.03 in       |
| r – Cup Backface To Clear Radius2    | 0.130 in      |
| da – Cone Frontface Backing Diameter | 2.13 in       |
| db – Cone Backface Backing Diameter  | 2.17 in       |
| Da – Cup Frontface Backing Diameter  | 3.90 in       |
| Ab – Cage-Cone Frontface Clearance   | 0.09 in       |
| Aa – Cage-Cone Backface Clearance    | 0.07 in       |

|  |           |
|--|-----------|
| a – Effective Center Location <sup>3</sup>                                     | -0.28 in  |
| C <sub>90</sub> – Dynamic Radial Rating (90 million revolutions) <sup>4</sup>  | 9170 lbf  |
| C <sub>1</sub> – Dynamic Radial Rating (1 million revolutions) <sup>5</sup>    | 35400 lbf |
| C <sub>0</sub> – Static Radial Rating  | 35000 lbf |
| Ca <sub>90</sub> – Dynamic Thrust Rating (90 million revolutions) <sup>6</sup> | 6290 lbf  |
| K – Factor <sup>7</sup>  | 1.46      |
| e – ISO Factor <sup>8</sup>  | 0.4       |
| Y – ISO Factor <sup>9</sup>  | 1.5       |
| G <sub>1</sub> – Heat Generation Factor (Roller-Raceway) <sup>10</sup>         | 49.1      |
| G <sub>2</sub> – Heat Generation Factor (Rib-Roller End)                       | 14.2      |
| C <sub>g</sub> – Geometry Factor <sup>11</sup>                                 | 0.0946    |