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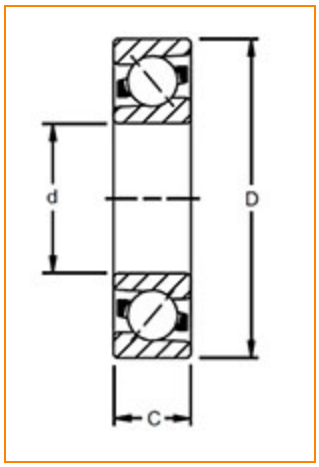
# Part Number 7302 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.






Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

## Dimensions

| | |
|---|---|
| **d - Bore** | 15.00 mm<br>0.5906 in |
| **D - Outer Diameter** | 42.00 mm<br>1.6535 in |
| **Bearing Width** | 13.00 mm<br>0.5118 in |
| **Contact Angle** | 40 ° |

## Basic Load Ratings

| | |
|---|---|
| **C0 - Static Radial Rating** | 6600 N<br>1483 lbf |
| | 13000 N |

| | |
|---|---|
| **C1 ISO - Dynamic Radial Rating** | 13000 N<br>2922 lbf |

## Factors

| | |
|---|---|
| **Limiting Speed (Grease)** | 17000 rpm |
| **Limiting Speed (Oil)** | 22000 rpm |

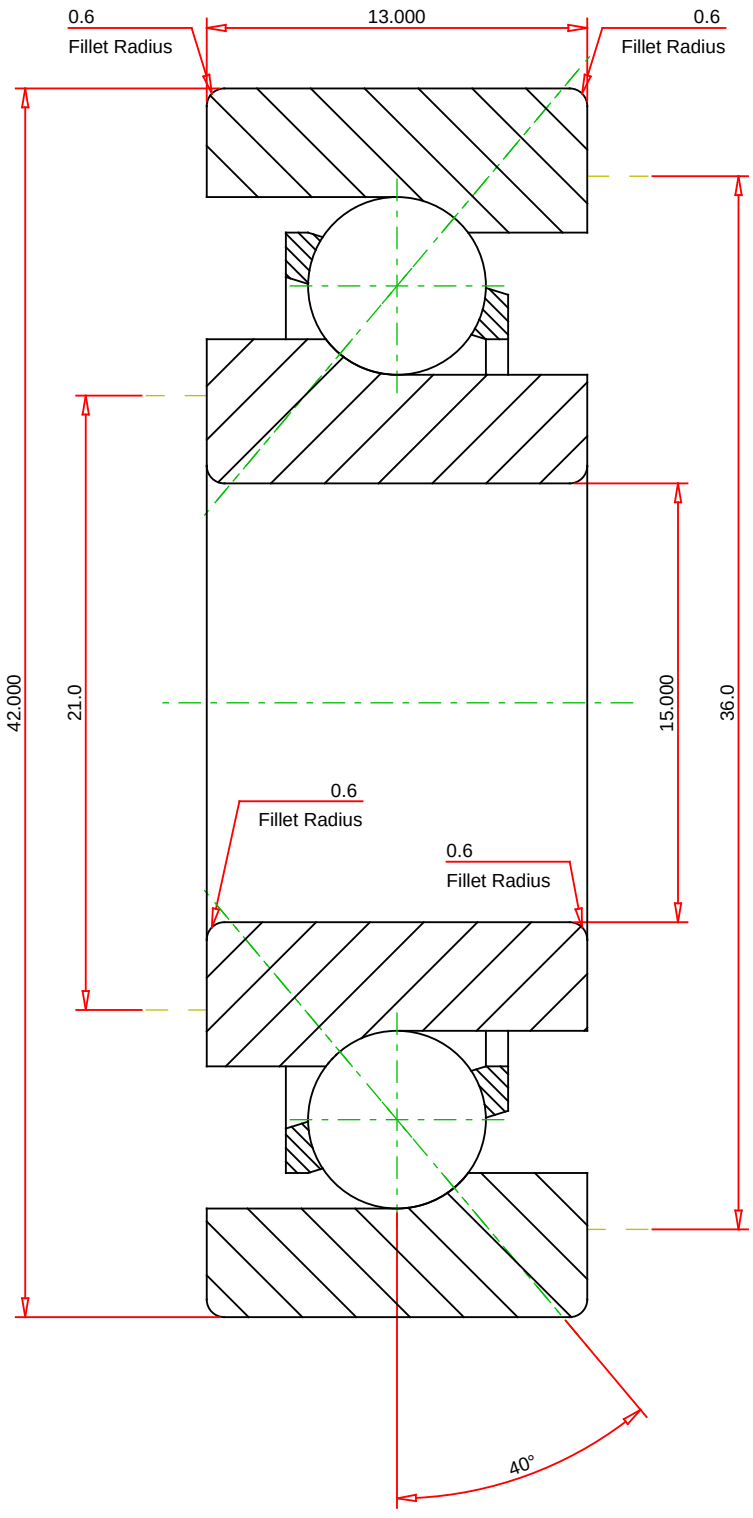
## Specifications

| | |
|---|---|
| **Ball Type** | STEEL |
| **Cage Type** | Molded |
| **Cage Material** | Polyamide |
| **Bearing Weight** | 0.06 Kg<br>0.132 lb |
| **Design Units** | METRIC |
| **R - Inner Ring "Touch" Radius** | 0.6 |
| **r - Outer Ring "Touch" Radius** | 0.6 |
| **Features** | Open |

## Abutment and Fillet Dimensions

| | |
|---|---|
| **R - Inner Ring "To Clear" Radius[1]** | 0.60 mm<br>0.024 in |
| **r - Outer Ring "To Clear" Radius[2]** | 0.60 mm<br>0.024 in |
| **da - Inner Ring Backing Diameter** | 21.0 mm<br>0.827 in |
| **Da - Outer Ring Backing Diameter** | 36.0 mm<br>1.417 in |

[1] Maximum housing fillet radius that bearing corners will clear.
[2] Maximum shaft fillet radius that bearing corners will clear.




METRIC UNITS

| | | |
|---|---|---|
| Number of Balls Per Row | 9 | |
| Bearing Weight | 0.060 | kg |

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

# 7302 BTN1

Timken® Single Row Angular Contact Ball Bearings
(7200, 7300)

| | | |
|---|---|---|
| Dynamic Radial Rating | 13000 | N |
| Static Radial Rating | 6600 | N |

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY