



HR30202J

d:15mm D:35mm T:11.75mm

Code Information

HR: Heavy-duty type

3: Tapered roller bearing

0: Width dimension series: 0 series

2: Diameter dimension series: 2 series

02: Inner diameter: 15 mm

J: The outer ring raceway's small-end diameter, angle, and width conform to ISO standards

Part Number: HR30202J	Shoulder and Chamfer Dimensions (mm)
Brand: ITJ	• da min.: 23
Main Dimensions	• db max.: 19
• Inner Diameter d [mm]: 15.00000	• Da max.: 30
• Outer Diameter D [mm]: 35.00000	• Da min.: 30
• Thickness B [mm]: 11.00000	• Db min.: 33
• Chamfer Dimension rmin. [mm]: 0.60000	• Sa min.: 2
	• Sb min.: 1.5
Basic Dynamic Load Rating	• Inner Ring ra max.: 0.6
• Cr [N]: 14800	• Outer Ring ra max.: 0.6

Basic Static Load Rating	Limiting Speeds (min[sup]-1[/sup])
• C0r [N]: 13200	• Grease Lubrication: 11000
	• Oil Lubrication: 15000

Coefficient	Other Parameters
• f0	• ISO355 Dimension Series: 0

Additional Basic Dimensions (mm)	• Constant e: 0.32
• Inner Ring (rmin.): 0.6	• Axial Load Factor Y1: 1.9
• Outer Ring (rmin.): 0.6	• Axial Load Factor Y0
• Total Width (T): 11.75	

• Outer Ring Width (C): 10	Weight (kg)
• Effective Load Center (a): 8.2	• 0.053

Dynamic Equivalent Load $P=XF_r+YF_a$

$F_a/F_r \leq e$		$F_a/F_r > e$	
X	Y	X	Y
1	0	0.4	Y_1

Static Equivalent Load

$P_0=0.5F_r+Y_0F_a$
When $F_r>0.5F_r+Y_0F_a$, use $P_0=F_r$
The values of e, Y_1 and Y_0 are given in the table below.

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