



Part Number	<b>6002</b>	
Bearing Series	Radial	
Hybrid (Si <sub>3</sub> N <sub>4</sub> Balls)	No	

#### Geometrical Data

Number of Balls	Z [Qty.]	9
Bearing Weight	m [kg]	0.030

#### Bearing Load Ratings<sup>1</sup>

Dynamic Radial Load Rating	C [N]	5,300
Static Radial Load Rating Steel Balls	C <sub>0</sub> [N]	2,650
Static Radial Load Rating Si <sub>3</sub> N <sub>4</sub> balls	C <sub>0 HY</sub> [N]	1,860

#### Bearing RPM Ratings<sup>2</sup>

Speed Value with Oil Lubrication	n <sub>oil</sub> [1/min]	59,625
Speed Value with Grease Lubrication	n <sub>grease</sub> [1/min]	47,700

#### Notes:

- The stated load ratings are given for a single bearing with grease lubrication. If specific applications differ, please consult GMN USA engineers.
- Speed ratings are for phenolic outer land guided cage (TA). Please consult the full GMN Bearing catalog or GMN USA engineers for speed ratings of different cages.

#### Bearing Dimensions

Bore Diameter	d [mm]	15
Outer Diameter	D [mm]	32
Bearing Width	B [mm]	9
Pitch Circle	d <sub>m</sub> [mm]	23.5
Ball Diameter	D <sub>w</sub> [mm]	4.762
OD Inner Ring	d <sub>1</sub> [mm]	20.1
ID Outer Ring	D <sub>1</sub> [mm]	26.9
Chamfer	r <sub>1,2</sub> [mm]	0.3

#### Mating Part Dimensions

Abutment Diameter Inner Ring	d <sub>a</sub> min. [mm]	17.5
Abutment Diameter Outer Ring	D <sub>a</sub> max. [mm]	29.0
Chamfer Associated Component	r <sub>a</sub> max. [mm]	0.3