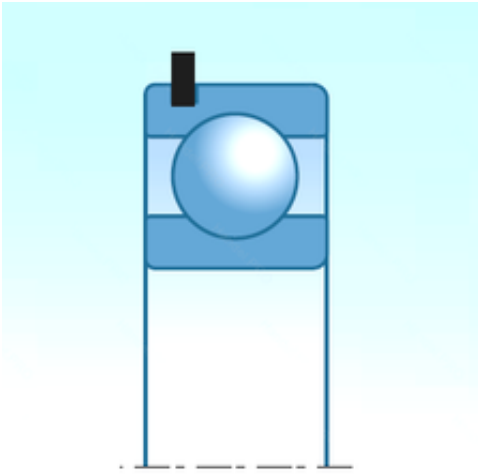




# KFY MANUFACTURING MEXICO LIMITED



6309ZNR Bearing 2D drawings and 3D CAD models

45,000 mm x 100,000 mm x 25,000 mm NTN  
6309ZNR deep groove ball bearings

Bearing No. 6309ZNR

|                        |              |
|------------------------|--------------|
| Size                   | 45x100x25 mm |
| Bore Diameter          | 45,000 mm    |
| Outer Diameter         | 100,000 mm   |
| Width                  | 25,000 mm    |
| d                      | 45,000 mm    |
| D                      | 100,000 mm   |
| B                      | 25,000 mm    |
| C                      | 25,000 mm    |
| a min                  | 3.07 mm      |
| a max                  | 3.28 mm      |
| Ca min                 | 5.43 mm      |
| Ca max                 | 5.74 mm      |
| rs min                 | 1.5 mm       |
| rNs min                | 0.5 mm       |
| D3 max                 | 96.8 mm      |
| b min                  | 2.7 mm       |
| b max                  | 3 mm         |
| r0 max                 | 0.6 mm       |
| D4 max                 | 106.5 mm     |
| f                      | 2.46 mm      |
| Snap ring reference    | R100         |
| Radial clearance class | CN           |
| Mass                   | 0.81 kg      |
| Dynamic load, C        | 53 kN        |
| Static load, C0        | 32 kN        |
|                        |              |



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|   |                          |
|---|--------------------------|
| Fatigue limit load, Cu                        | 1.45 kN                  |
| f0  | 13.1                     |
| Nlim (oil)                                    | 8,200 rpm                |
| Nlim (grease)                                 | 7,000 rpm                |
| Min operating temperature, Tmin               | -20 ° C                  |
| Max operating temperature, Tmax               | 120 ° C                  |
| Characteristic cage frequency, FTF            | 0.38 Hz                  |
| Characteristic rolling element frequency, BSF | 4 Hz                     |
| Characteristic outer ring frequency, BPF0     | 3.06 Hz                  |
| Characteristic inner ring frequency, BPF1     | 4.94 Hz                  |
| da min  | 53 mm                    |
| Da max  | 92 mm                    |
| ra max  | 1.5 mm                   |
| rNa max                                       | 0.5 mm                   |
| Db min  | 108 mm                   |
| Category                                      | Single Row Ball Bearings |
| Inventory                                     | 0.0                      |
| Manufacturer Name                             | NTN                      |
| Minimum Buy Quantity                          | N/A                      |
| Weight / Kilogram                             | 0.822                    |
| Product Group                                 | B00308                   |
| Enclosure                                     | 1 Metal Shield           |
| Precision Class                               | ABEC 1   ISO P0          |
| Maximum Capacity / Filling Slot               | No                       |
| Rolling Element                               | Ball Bearing             |
| Snap Ring                                     | Yes                      |
| Internal Special Features                     | No                       |
|   |                          |



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|                          |  |
|--------------------------|--|
| Cage Material            | Steel  |
| Internal Clearance       | C0-Medium  |
| Inch - Metric            | Metric   |
| Long Description         | 45MM Bore; 100MM Outside Diameter; 25MM Outer Race Width; 1 Metal Shield; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; Yes Snap Ring; No Internal Special Features; C0-Medium Internal Clearance; Ste |
| Other Features           | Deep Groove   With Snap Ring   |
| Category                 | Single Row Ball Bearing  |
| UNSPSC                   | 31171504   |
| Harmonized Tariff Code   | 8482.10.50.68  |
| Noun                     | Bearing  |
| Keyword String           | Ball   |
| Manufacturer URL         | <a href="http://www.ntnamerica.com">http://www.ntnamerica.com</a>  |
| Manufacturer Item Number | 6309ZNR  |
| Weight / LBS             | 1.8188   |
| Outer Race Width         | 0.984 Inch   25 Millimeter   |
| Inner Race Width         | 0 Inch   0 Millimeter  |
| Bore                     | 1.772 Inch   45 Millimeter   |
| Outside Diameter         | 3.937 Inch   100 Millimeter  |
| bore diameter:           | 45 mm  |
| precision rating:        | ISO Class 0  |
| outside diameter:        | 100 mm   |
| finish/coating:          | Uncoated   |
| overall width:           | 25 mm  |
| bearing material:        | High Carbon Chrome Steel   |
| bore type:               | Round  |
| cage material:           | Steel  |
|                          |  |



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|                              |                            |
|------------------------------|----------------------------|
| closure type:                | Single Shield              |
| inner ring width:            | 25 mm                      |
| row type & fill slot:        | Single Row Non-Fill Slot   |
| outer ring width:            | 25 mm                      |
| snap ring included:          | With Snap Ring             |
| maximum rpm (grease):        | 7000 rpm                   |
| internal clearance:          | CN                         |
| maximum rpm (oil):           | 8200 rpm                   |
| operating temperature range: | -40 to 120 ° C             |
| fillet radius:               | 1.5 mm                     |
| dynamic load capacity:       | 53000 N                    |
| manufacturer product page:   | <a href="#">Click here</a> |
| static load capacity:        | 32000 N                    |