



35 mm x 80 mm x 21 mm NTN 6307NR deep groove ball bearings

Bearing No. 6307NR

| | |
|----------------|-------------|
| Size | 35x80x21 mm |
| Bore Diameter | 35 mm |
| Outer Diameter | 80 mm |
| Width | 21 mm |
| d | 35 mm |
| D | 80 mm |
| B | 21 mm |
| C | 21 mm |
| rn | 0,5 mm |
| a | 3,28 mm |
| b | 1,9 mm |
| f | 1,7 mm |
| r min. | 1,5 mm |
| r0 max. | 0,6 mm |
| D1 | 76,81 mm |
| D2 | 86,6 mm |
| da min. | 43 mm |
| da max | 47 mm |
| Da max. | 72 mm |
| ra max. | 1,5 mm |
| Dx | 88 mm |
| Cy | 4,6 mm |
| Cz | 1,7 mm |
| rn | 0,5 mm |
| Weight | 0,457 Kg |
| | |

6307NR Bearing 2D drawings and 3D CAD models

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|---|--------------|
| Basic dynamic load rating (C) | 33,5 kN |
| Basic static load rating (C0) | 19,1 kN |
| (Grease) Lubrication Speed | 8 800 r/min |
| (Oil) Lubrication Speed | 10 000 r/min |
| a min | 3.07 mm |
| a max | 3.28 mm |
| Ca min | 4.67 mm |
| Ca max | 4.98 mm |
| rs min | 1.5 mm |
| rNs min | 0.5 mm |
| D3 max | 76.81 mm |
| b min | 1.9 mm |
| b max | 2.2 mm |
| r0 max | 0.6 mm |
| D4 max | 86.6 mm |
| Snap ring reference | R80 |
| Radial clearance class | CN |
| Mass | 0.46 kg |
| Dynamic load, C | 33.5 kN |
| Static load, C0 | 19.1 kN |
| Fatigue limit load, Cu | 0.87 kN |
| f0 | 13.1 |
| Nlim (oil) | 10,000 rpm |
| Nlim (grease) | 8,800 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 | 4.03 Hz |
| Characteristic outer ring | 3.06 Hz |



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|---|---|
| frequency, BPF0 | |
| Characteristic inner ring frequency, BPF1 | 4.94 Hz |
| da min | 43 mm |
| Da max | 72 mm |
| ra max | 1.5 mm |
| rNa max | 0.5 mm |
| Db min | 88 mm |
| Category | Single Row Ball Bearings |
| Inventory | 0.0 |
| Manufacturer Name | NTN |
| Minimum Buy Quantity | N/A |
| Weight / Kilogram | 0.45 |
| Product Group | B00308 |
| Enclosure | Open |
| Precision Class | ABEC 1 ISO P0 |
| Maximum Capacity / Filling Slot | No |
| Rolling Element | Ball Bearing |
| Snap Ring | Yes |
| Internal Special Features | No |
| Cage Material | Steel |
| Internal Clearance | C0-Medium |
| Inch - Metric | Metric |
| Long Description | 35MM Bore; 80MM Outside Diameter; 21MM Outer Race Diameter; Open; Ball Bearing; ABEC 1 ISO P0; No Filling Slot; Yes Snap Ring; No Internal Special Features |
| Category | Single Row Ball Bearing |
| UNSPSC | 31171504 |
| Harmonized Tariff Code | 8482.10.50.68 |
| Noun | Bearing |



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|------------------------------|---|
| Keyword String | Ball |
| Manufacturer URL | http://www.snrbearings.com |
| Manufacturer Item Number | 6307.NR |
| Weight / LBS | 0.98 |
| Bore | 1.378 Inch 35 Millimeter |
| Outside Diameter | 3.15 Inch 80 Millimeter |
| Outer Race Width | 0.827 Inch 21 Millimeter |
| bore diameter: | 35 mm |
| finish/coating: | Uncoated |
| outside diameter: | 80 mm |
| bearing material: | High Carbon Chrome Steel |
| overall width: | 21 mm |
| cage material: | Steel |
| bore type: | Round |
| inner ring width: | 21 mm |
| closure type: | Open |
| outer ring width: | 21 mm |
| row type & fill slot: | Single Row Non-Fill Slot |
| maximum rpm (grease): | 8800 rpm |
| snap ring included: | With Snap Ring |
| maximum rpm (oil): | 10000 rpm |
| internal clearance: | CN |
| fillet radius: | 1.5 mm |
| operating temperature range: | -40 to 120 ° C |
| maximum rpm: | 10000 RPM |
| dynamic load capacity: | 33500 N |
| series: | 63 |
| static load capacity: | 19100 N |
| manufacturer product page: | Click here |
| precision rating: | ISO Class 0 |