



Bearing No. 6304-2Z

|                  |                                                     |
|------------------|-----------------------------------------------------|
| D                | 52 mm                                               |
| d                | 20 mm                                               |
| B                | 15 mm                                               |
| Bore             | 0.787 Inch   20 Millimeter                          |
| Noun             | Bearing                                             |
| UNSPSC           | 31171504                                            |
| Category         | Single Row Ball Bearing                             |
| Inventory        | 0.0                                                 |
| Enclosure        | 2 Metal Shields                                     |
| Size (mm)        | 52x20x15                                            |
| Snap Ring        | No                                                  |
| Width (mm)       | 15                                                  |
| Mass bearing     | 0.15 kg                                             |
| Weight / LBS     | 0.32                                                |
| Inch - Metric    | Metric                                              |
| Cage Material    | Steel                                               |
| D <sub>2</sub>   | 44.71 mm                                            |
| d <sub>1</sub>   | 30.35 mm                                            |
| Product Group    | B00308                                              |
| Other Features   | Deep Groove                                         |
| Keyword String   | Ball                                                |
| Bearing number   | 6304-2Z                                             |
| Limiting speed   | 15000 r/min                                         |
| Rolling Element  | Ball Bearing                                        |
| Reference speed  | 30000 r/min                                         |
| Precision Class  | ABEC 1   ISO P0                                     |
| Inner Race Width | 0 Inch   0 Millimeter                               |
| Manufacturer URL | <a href="http://www.skf.com">http://www.skf.com</a> |
| Outside Diameter | 2.047 Inch   52                                     |

|                           | Millimeter                                                                                                                                                                                               |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Long Description          | 20MM Bore; 52MM Outside Diameter; 15MM Outer Race Width; 2 Metal Shields; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features; C0-Medium Internal Clearance; Stee |
| Outer Race Width          | 0.591 Inch   15 Millimeter                                                                                                                                                                               |
| Manufacturer Name         | SKF                                                                                                                                                                                                      |
| Weight / Kilogram         | 0.153                                                                                                                                                                                                    |
| D <sub>a</sub> max.       | 45 mm                                                                                                                                                                                                    |
| d <sub>a</sub> max.       | 30.3 mm                                                                                                                                                                                                  |
| d <sub>a</sub> min.       | 27 mm                                                                                                                                                                                                    |
| r <sub>a</sub> max.       | 1 mm                                                                                                                                                                                                     |
| Internal Clearance        | C0-Medium                                                                                                                                                                                                |
| Bore Diameter (mm)        | 52                                                                                                                                                                                                       |
| Outer Diameter (mm)       | 20                                                                                                                                                                                                       |
| r <sub>a</sub> - max.     | 1 mm                                                                                                                                                                                                     |
| D <sub>a</sub> - max.     | 45 mm                                                                                                                                                                                                    |
| d <sub>a</sub> - max.     | 30.3 mm                                                                                                                                                                                                  |
| d <sub>a</sub> - min.     | 27 mm                                                                                                                                                                                                    |
| Minimum Buy Quantity      | N/A                                                                                                                                                                                                      |
| d <sub>1</sub> ?          | 30.35 mm                                                                                                                                                                                                 |
| D <sub>2</sub> ?          | 44.71 mm                                                                                                                                                                                                 |
| r <sub>1,2</sub> - min.   | 1.1 mm                                                                                                                                                                                                   |
| Harmonized Tariff Code    | 8482.10.50.68                                                                                                                                                                                            |
| Manufacturer Item Number  | 6304-2Z                                                                                                                                                                                                  |
| Internal Special Features | No                                                                                                                                                                                                       |
| Basic dynamic load        | 16.8 kN                                                                                                                                                                                                  |

|                                  |          |
|----------------------------------|----------|
| rating C                         |          |
| Basic dynamic load rating - C    | 16.8 kN  |
| Maximum Capacity / Filling Slot  | No       |
| Fatigue load limit $P_u$         | 0.335 kN |
| Calculation factor $k_r$         | 0.03     |
| Calculation factor $f_0$         | 12       |
| Calculation factor - $k_r$       | 0.03     |
| Fatigue load limit - $P_u$       | 0.335 kN |
| Calculation factor - $f_0$       | 12       |
| Basic static load rating $C_0$   | 7.8 kN   |
| Basic static load rating - $C_0$ | 7.8 kN   |