



**Bearing No. 61809-2RZ**

|                |                            |
|----------------|----------------------------|
| D              | 58 mm                      |
| d              | 45 mm                      |
| B              | 7 mm                       |
| Bore           | 1.772 Inch   45 Millimeter |
| Noun           | Bearing                    |
| UNSPSC         | 31171504                   |
| series:        | 61                         |
| Category       | Single Row Ball Bearing    |
| Size (mm)      | 58x45x7                    |
| Snap Ring      | No                         |
| Enclosure      | 2 Seals                    |
| Inventory      | 0.0                        |
| Width (mm)     | 7                          |
| bore type:     | Round                      |
| maximum rpm:   | 11000 RPM                  |
| Weight / LBS   | 0.1                        |
| Mass bearing   | 0.04 kg                    |
| Product Group  | B00308                     |
| Cage Material  | Steel                      |
| closure type:  | Double Sealed              |
| D <sub>2</sub> | 55.4 mm                    |
| d <sub>1</sub> | 49.1 mm                    |
| Inch - Metric  | Metric                     |
| bore diameter: | 45 mm                      |
| Enclosure Type | Non-Contact Seal           |
| Bearing number | 61809-2RZ                  |
| overall width: | 7 mm                       |
| cage material: | Steel                      |
| fillet radius: | 0.3 mm                     |

|                       |   |
|-----------------------|---|
| Limiting speed        | 11000 r/min   |
| Keyword String        | Ball  |
| finish/coating:       | Uncoated  |
| Reference speed       | 22000 r/min   |
| Precision Class       | ABEC 1   ISO P0   |
| Rolling Element       | Ball Bearing  |
| Outside Diameter      | 2.283 Inch   58<br>Millimeter   |
| Manufacturer URL      | <a href="http://www.skf.com">http://www.skf.com</a>   |
| Outer Race Width      | 0.276 Inch   7 Millimeter   |
| Long Description      | 45MM Bore; 58MM<br>Outside Diameter; 7MM<br>Outer Race Diameter; 2<br>Seals; Ball Bearing;<br>ABEC 1   ISO P0; No<br>Filling Slot; No Snap<br>Ring; No Internal<br>Special Features |
| Weight / Kilogram     | 0.045   |
| Manufacturer Name     | SKF   |
| precision rating:     | Not Rated   |
| outside diameter:     | 58 mm   |
| outer ring width:     | 7 mm  |
| Bore Diameter (mm)    | 58  |
| Internal Clearance    | C0-Medium   |
| r <sub>a</sub> max.   | 0.3 mm  |
| d <sub>a</sub> min.   | 47 mm   |
| D <sub>a</sub> max.   | 56 mm   |
| d <sub>a</sub> max.   | 49 mm   |
| Outer Diameter (mm)   | 45  |
| internal clearance:   | C0  |
| d <sub>a</sub> - min. | 47 mm   |
| Minimum Buy Quantity  | N/A   |
| r <sub>a</sub> - max. | 0.3 mm  |
| r <sub>1,2</sub> min. | 0.3 mm  |

|                                  |                          |
|----------------------------------|--------------------------|
| $d_a$ - max.                     | 49 mm                    |
| $D_a$ - max.                     | 56 mm                    |
| static load capacity:            | 6.1 kN                   |
| row type & fill slot:            | Single Row Non-Fill Slot |
| $D_2$ ?                          | 55.4 mm                  |
| $d_1$ ?                          | 48.2 mm                  |
| dynamic load capacity:           | 6.63 kN                  |
| $r_{1,2}$ - min.                 | 0.3 mm                   |
| Harmonized Tariff Code           | 8482.10.50.68            |
| Manufacturer Item Number         | 61809-2RZ                |
| Internal Special Features        | No                       |
| Basic dynamic load rating C      | 6.63 kN                  |
| operating temperature range:     | -40 to +210 °F           |
| Basic dynamic load rating - C    | 6.6 kN                   |
| Maximum Capacity / Filling Slot  | No                       |
| Fatigue load limit $P_u$         | 0.26 kN                  |
| Calculation factor $k_r$         | 0.015                    |
| Calculation factor $f_0$         | 17                       |
| Calculation factor - $k_r$       | 0.015                    |
| Calculation factor - $f_0$       | 17                       |
| Fatigue load limit - $P_u$       | 0.26 kN                  |
| Basic static load rating $C_0$   | 6.1 kN                   |
| Basic static load rating - $C_0$ | 6.1 kN                   |