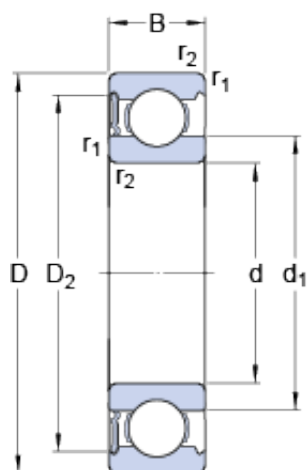




Bearing No. 6010-RS1

|                  |                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------|
| D                | 80 mm                                                                                                                  |
| d                | 50 mm                                                                                                                  |
| B                | 16 mm                                                                                                                  |
| Bore             | 1.969 Inch   50 Millimeter                                                                                             |
| Noun             | Bearing                                                                                                                |
| UNSPSC           | 31171504                                                                                                               |
| Category         | Single Row Ball Bearing                                                                                                |
| Inventory        | 0.0                                                                                                                    |
| Enclosure        | 1 Seal                                                                                                                 |
| Size (mm)        | 80x50x16                                                                                                               |
| Snap Ring        | No                                                                                                                     |
| Width (mm)       | 16                                                                                                                     |
| Mass bearing     | 0.27 kg                                                                                                                |
| Weight / LBS     | 0.61                                                                                                                   |
| Inch - Metric    | Metric                                                                                                                 |
| Cage Material    | Steel                                                                                                                  |
| D <sub>2</sub>   | 72.8 mm                                                                                                                |
| d <sub>1</sub>   | 59.75 mm                                                                                                               |
| Product Group    | B00308                                                                                                                 |
| Enclosure Type   | Contact Seal                                                                                                           |
| Keyword String   | Ball                                                                                                                   |
| Bearing number   | 6010-RS1                                                                                                               |
| Limiting speed   | 5000 r/min                                                                                                             |
| Rolling Element  | Ball Bearing                                                                                                           |
| Precision Class  | ABEC 1   ISO P0                                                                                                        |
| Long Description | 50MM Bore; 80MM Outside Diameter; 16MM Outer Race Diameter; 1 Seal; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No |

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
|                                 | Snap Ring; No Internal Special Features             |
| Outer Race Width                | 0.63 Inch   16 Millimeter                           |
| Manufacturer URL                | <a href="http://www.skf.com">http://www.skf.com</a> |
| Outside Diameter                | 3.15 Inch   80 Millimeter                           |
| Weight / Kilogram               | 0.275                                               |
| Manufacturer Name               | SKF                                                 |
| $r_a$ max.                      | 1 mm                                                |
| $D_a$ max.                      | 75.4 mm                                             |
| $d_a$ max.                      | 59.7 mm                                             |
| $d_a$ min.                      | 54.6 mm                                             |
| Bore Diameter (mm)              | 80                                                  |
| Internal Clearance              | C0-Medium                                           |
| Outer Diameter (mm)             | 50                                                  |
| $d_a$ - max.                    | 59.7 mm                                             |
| $D_a$ - max.                    | 75.4 mm                                             |
| $d_a$ - min.                    | 54.6 mm                                             |
| $r_a$ - max.                    | 1 mm                                                |
| $r_{1,2}$ min.                  | 1 mm                                                |
| Minimum Buy Quantity            | N/A                                                 |
| $d_1$ ?                         | 59.75 mm                                            |
| $r_{1,2}$ - min.                | 1 mm                                                |
| Harmonized Tariff Code          | 8482.10.50.68                                       |
| Manufacturer Item Number        | 6010-RS1                                            |
| Internal Special Features       | No                                                  |
| Basic dynamic load rating C     | 22.9 kN                                             |
| Basic dynamic load rating - C   | 22.9 kN                                             |
| Maximum Capacity / Filling Slot | No                                                  |
| Fatigue load limit $P_u$        | 0.71 kN                                             |
|                                 |                                                     |

|                                     |         |
|-------------------------------------|---------|
| Calculation factor $k_r$            | 0.025   |
| Calculation factor $f_0$            | 14.7    |
| Fatigue load limit - $P_u$          | 0.71 kN |
| Calculation factor - $k_r$          | 0.025   |
| Calculation factor - $f_0$          | 14.7    |
| Basic static load rating<br>$C_0$   | 15.6 kN |
| Basic static load rating -<br>$C_0$ | 15.6 kN |