



6304 Bearing 2D drawings and 3D CAD models

SKF Spare Parts 6304 2rsh/C3 6305 2RS1 6006  
2RS1 & FAG 61907 2rsr 6205 2rsr C3 6206 2rsr  
Deep Groove Ball Bearing for  
Agriculture/Machinery/Motorcycle

Bearing No. 6304

|   |                          |
|---|--------------------------|
| Size                                      | 52x20x15 mm              |
| Bore Diameter                             | 52 mm                    |
| Outer Diameter                            | 20 mm                    |
| Width                                     | 15 mm                    |
| d   | 20 mm                    |
| D   | 52 mm                    |
| B   | 15 mm                    |
| d <sub>1</sub>                            | 30.35 mm                 |
| D <sub>2</sub>                            | 44.71 mm                 |
| r <sub>1,2</sub> - min.                   | 1.1 mm                   |
| d <sub>a</sub> - min.                     | 27 mm                    |
| D <sub>a</sub> - max.                     | 45 mm                    |
| r <sub>a</sub> - max.                     | 1 mm                     |
| Basic dynamic load rating - C             | 16.8 kN                  |
| Basic static load rating - C <sub>0</sub> | 7.8 kN                   |
| Fatigue load limit - P <sub>u</sub>       | 0.335 kN                 |
| Reference speed                           | 30000 r/min              |
| Limiting speed                            | 19000 r/min              |
| Calculation factor - k <sub>r</sub>       | 0.03                     |
| Calculation factor - f <sub>0</sub>       | 12                       |
| Category                                  | Single Row Ball Bearings |
| Inventory                                 | 95.0                     |



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|                                 |  |
|---------------------------------|--|
| Manufacturer Name               | SKF  |
| Minimum Buy Quantity            | N/A  |
| Weight / Kilogram               | 0.146  |
| EAN                             | 7316571124742  |
| Product Group                   | B00308   |
| Enclosure                       | Open   |
| Precision Class                 | ABEC 1   ISO P0  |
| Maximum Capacity / Filling Slot | No   |
| Rolling Element                 | Ball Bearing   |
| Snap Ring                       | No   |
| Internal Special Features       | No   |
| Cage Material                   | Steel  |
| Internal Clearance              | C0-Medium  |
| Inch - Metric                   | Metric   |
| Long Description                | 20MM Bore; 52MM Outside Diameter; 15MM Outer Race Diameter; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features |
| 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.skf.com">http://www.skf.com</a>  |
| Manufacturer Item Number        | 6304   |
| Weight / LBS                    | 0.32   |
| Bore                            | 0.787 Inch   20 Millimeter   |
| Outside Diameter                | 2.047 Inch   52 Millimeter   |
| Outer Race Width                | 0.591 Inch   15 Millimeter   |
| d <sub>1</sub>                  | 30.35 mm   |
|                                 |  |



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|                                |          |
|--------------------------------|----------|
| $D_2$                          | 44.71 mm |
| $d_a$ min.                     | 27 mm    |
| $D_a$ max.                     | 45 mm    |
| $r_a$ max.                     | 1 mm     |
| Basic dynamic load rating C    | 16.8 kN  |
| Basic static load rating $C_0$ | 7.8 kN   |
| Fatigue load limit $P_u$       | 0.335 kN |
| Calculation factor $k_r$       | 0.03     |
| Calculation factor $f_0$       | 12       |
| Mass bearing                   | 0.14 kg  |