## SKF 6208 Open Ball Bearings (6200 6202 6203 6204 6205 6206 6207 6208 6209 6210)

### Bearing No. 6208

<table>
<thead>
<tr>
<th>Size</th>
<th>40x80x18 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore Diameter</td>
<td>40 mm</td>
</tr>
<tr>
<td>Outer Diameter</td>
<td>80 mm</td>
</tr>
<tr>
<td>Width</td>
<td>18 mm</td>
</tr>
<tr>
<td>d</td>
<td>40 mm</td>
</tr>
<tr>
<td>D</td>
<td>80 mm</td>
</tr>
<tr>
<td>B</td>
<td>18 mm</td>
</tr>
<tr>
<td>C</td>
<td>18 mm</td>
</tr>
<tr>
<td>d1</td>
<td>52.6 mm</td>
</tr>
<tr>
<td>r1 min.</td>
<td>1.1 mm</td>
</tr>
<tr>
<td>r2 min.</td>
<td>1.1 mm</td>
</tr>
<tr>
<td>D1</td>
<td>67.4 mm</td>
</tr>
<tr>
<td>D2</td>
<td>69.8 mm</td>
</tr>
<tr>
<td>d1 min.</td>
<td>47 mm</td>
</tr>
<tr>
<td>D1 max.</td>
<td>73 mm</td>
</tr>
<tr>
<td>rc max.</td>
<td>1 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.37 Kg</td>
</tr>
<tr>
<td>Basic dynamic load rating (C)</td>
<td>32.5 kN</td>
</tr>
<tr>
<td>Basic static load rating (C0)</td>
<td>19 kN</td>
</tr>
<tr>
<td>Fatigue load limit (Pu)</td>
<td>0.8</td>
</tr>
<tr>
<td>Reference speed</td>
<td>18000 r/min</td>
</tr>
<tr>
<td>Limiting speed</td>
<td>11000 r/min</td>
</tr>
<tr>
<td>Calculation factor (f0)</td>
<td>14</td>
</tr>
<tr>
<td>Category</td>
<td>Single Row Ball Bearings</td>
</tr>
<tr>
<td>Inventory</td>
<td>7.0</td>
</tr>
<tr>
<td>Manufacturer Name</td>
<td>SKF</td>
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<tr>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Minimum Buy Quantity</td>
<td>N/A</td>
</tr>
<tr>
<td>Weight / Kilogram</td>
<td>0.367</td>
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<tr>
<td>Product Group</td>
<td>B00308</td>
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<tr>
<td>Enclosure</td>
<td>Open</td>
</tr>
<tr>
<td>Precision Class</td>
<td>ABEC 1</td>
</tr>
<tr>
<td>Maximum Capacity / Filling Slot</td>
<td>No</td>
</tr>
<tr>
<td>Rolling Element</td>
<td>Ball Bearing</td>
</tr>
<tr>
<td>Snap Ring</td>
<td>No</td>
</tr>
<tr>
<td>Internal Special Features</td>
<td>No</td>
</tr>
<tr>
<td>Cage Material</td>
<td>Steel</td>
</tr>
<tr>
<td>Internal Clearance</td>
<td>C0-Medium</td>
</tr>
<tr>
<td>Inch - Metric</td>
<td>Metric</td>
</tr>
<tr>
<td>Long Description</td>
<td>40MM Bore; 80MM Outside Diameter; 18MM Outer Race Diameter; Open; Ball Bearing; ABEC 1</td>
</tr>
<tr>
<td>Category</td>
<td>Single Row Ball Bearing</td>
</tr>
<tr>
<td>UNSPSC</td>
<td>31171504</td>
</tr>
<tr>
<td>Harmonized Tariff Code</td>
<td>8482.10.50.68</td>
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<tr>
<td>Noun</td>
<td>Bearing</td>
</tr>
<tr>
<td>Keyword String</td>
<td>Ball</td>
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<tr>
<td>Manufacturer URL</td>
<td><a href="http://www.skf.com">http://www.skf.com</a></td>
</tr>
<tr>
<td>Manufacturer Item Number</td>
<td>6208</td>
</tr>
<tr>
<td>Weight / LBS</td>
<td>0.81</td>
</tr>
<tr>
<td>Outer Race Width</td>
<td>0.709 Inch</td>
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<tr>
<td>Outside Diameter</td>
<td>3.15 Inch</td>
</tr>
<tr>
<td>Bore</td>
<td>1.575 Inch</td>
</tr>
<tr>
<td>( d_1 \approx )</td>
<td>52.6 mm</td>
</tr>
<tr>
<td>( D_2 \approx )</td>
<td>69.8 mm</td>
</tr>
<tr>
<td>Parameter</td>
<td>Value</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>$r_{12}$ min.</td>
<td>11 mm</td>
</tr>
<tr>
<td>$d_a$ min.</td>
<td>47 mm</td>
</tr>
<tr>
<td>$D_a$ max.</td>
<td>73 mm</td>
</tr>
<tr>
<td>$r_a$ max.</td>
<td>1 mm</td>
</tr>
<tr>
<td>Basic dynamic load rating $C$</td>
<td>32.5 kN</td>
</tr>
<tr>
<td>Basic static load rating $C_0$</td>
<td>19 kN</td>
</tr>
<tr>
<td>Fatigue load limit $P_u$</td>
<td>0.8 kN</td>
</tr>
<tr>
<td>Calculation factor $k_r$</td>
<td>0.025</td>
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<tr>
<td>Calculation factor $f_0$</td>
<td>13.8</td>
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<tr>
<td>Mass bearing</td>
<td>0.36 kg</td>
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