**SMA Female to SMA Female Rotary Joint**

**Electrical Specifications**
- Frequency Range: DC to 18 GHz
- Max VSWR: 1.4:1
- Max Insertion Loss: 0.6 dB
- Max Peak Power: 3 KWatts

**Specifications by Frequency**

<table>
<thead>
<tr>
<th>Description</th>
<th>F1</th>
<th>F2</th>
<th>F3</th>
<th>F4</th>
<th>F5</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>DC to 6</td>
<td>6 to 12.4</td>
<td>12.4 to 18</td>
<td></td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>1.15:1</td>
<td>1.3:1</td>
<td>1.4:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotational Variation</td>
<td>0.01:1</td>
<td>0.02:1</td>
<td>0.03:1</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>0.3</td>
<td>0.4</td>
<td>0.6</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
<tr>
<td>Rotational Variation</td>
<td>0.03</td>
<td>0.05</td>
<td>0.1</td>
<td></td>
<td></td>
<td>dB</td>
</tr>
</tbody>
</table>

**Mechanical Specifications**
- Typ Speed: 100 RPM
- Size:
  - Length: 1 in [25.4 mm]
  - Width: 0.56 in [14.22 mm]
  - Weight: 0.02072 lbs [9.4 g]

**Connector 1**
- Type: SMA Female
- Mating Cycles: 500
- Inner Conductor Material and Plating: Beryllium Copper
- Inner Conductor Plating Specification: ASTM A582
- Body Material and Plating: Stainless Steel, Passivated
- Body Plating Specification: ASTM A582
- Dielectric Type: PTFE

**Connector 2**
- Type: SMA Female
- Mating Cycles: 500
- Inner Conductor Material and Plating: Beryllium Copper
- Inner Conductor Plating: Stainless Steel, Passivated
- Body Material and Plating: Stainless Steel
- Dielectric Type: PTFE

**Environmental Specifications**

**Compliance Certifications** (visit www.FairviewMicrowave.com for current document)
- RoHS Compliant: Yes
- REACH Compliant: 06/16/2014

**Plotted and Other Data**
- Notes:
  - Values at 25 °C, sea level
SMA Female to SMA Female Rotary Joint from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: SMA Female to SMA Female Rotary Joint FMRJ1000


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability, arising out of the use of any part or documentation.
FAIRVIEW MICROWAVE INC.
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM

SMA Female to SMA Female Rotary Joint

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

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