

**SMA Female to SMA Female Rotary Joint Dual Flat**

**Electrical Specifications**

|                    |              |
|--------------------|--------------|
| Frequency Range    | DC to 18 GHz |
| Max VSWR           | 1.4:1        |
| Max Insertion Loss | 0.6 dB       |
| Max Input Power    | 200 Watts    |
| Max Peak Power     | 3 kWatts     |

**Specifications by Frequency**

| Description          | F1      | F2     | F3        | F4         | F5       | Units   |
|----------------------|---------|--------|-----------|------------|----------|---------|
| Range                | DC to 1 | 1 to 6 | 6 to 12.4 | 12.4 to 15 | 15 to 18 | GHz     |
| VSWR                 | 1.15:1  | 1.15:1 | 1.3:1     | 1.4:1      | 1.4:1    |         |
| Rotational Variation | 0.01:1  | 0.01:1 | 0.02:1    | 0.03:1     | 0.03:1   |         |
| Insertion Loss       | 0.3     | 0.3    | 0.4       | 0.6        | 0.6      | dB      |
| Rotational Variation | 0.03    | 0.03   | 0.05      | 0.1        | 0.1      | dB      |
| Phase Rot Variation  | 0.5     | 0.5    | 1         | 1.5        | 1.5      | Degrees |
| Power Handling       | 200     |        |           | 40         | 30       | Watts   |



**Features:**

- Connector 1: SMA Female
- Impedance 1: 50 Ohms
- Connector 2: SMA Female
- Impedance 2: 50 Ohms
- Adapter Design: Standard
- Body Style: Straight

**Mechanical Specifications**

**Size**

|        |                     |
|--------|---------------------|
| Length | 1 in [25.4 mm]      |
| Width  | 0.56 in [14.22 mm]  |
| Weight | 0.0291 lbs [13.2 g] |
| Color  | Silver              |

**Connector 1**

|                                      |                             |
|--------------------------------------|-----------------------------|
| Type                                 | SMA Female                  |
| Mating Cycles                        | 500                         |
| Inner Conductor Material and Plating | Beryllium Copper, Gold      |
| Hex Size                             | 5/16                        |
| Torque                               | 8 in-lbs [0.9 Nm]           |
| Body Material and Plating            | Stainless Steel, Passivated |
| Dielectric Type                      | PTFE                        |

**Connector 2**

|                                      |                             |
|--------------------------------------|-----------------------------|
| Type                                 | SMA Female                  |
| Mating Cycles                        | 500                         |
| Inner Conductor Material and Plating | Beryllium Copper, Gold      |
| Body Material and Plating            | Stainless Steel, Passivated |
| Dielectric Type                      | Stainless Steel<br>PTFE     |

**Environmental Specifications**

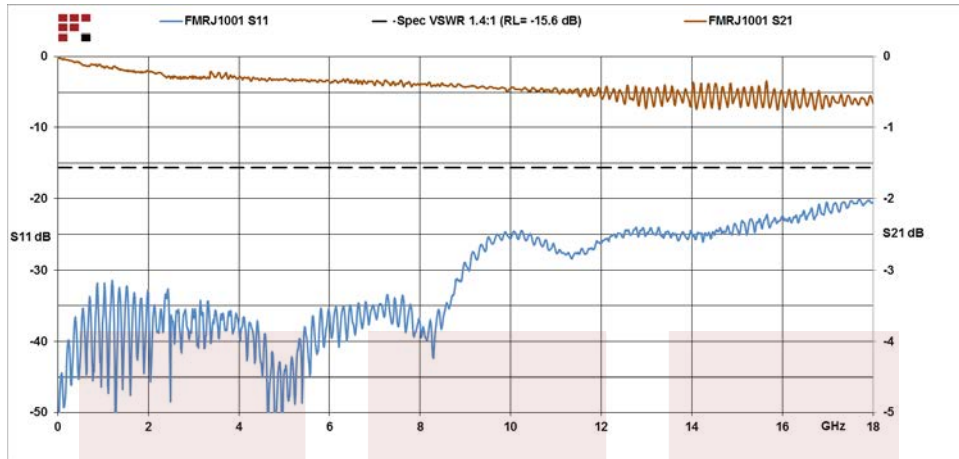
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

- Notes:
- Values at 25 °C, sea level

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**Typical Performance Data**

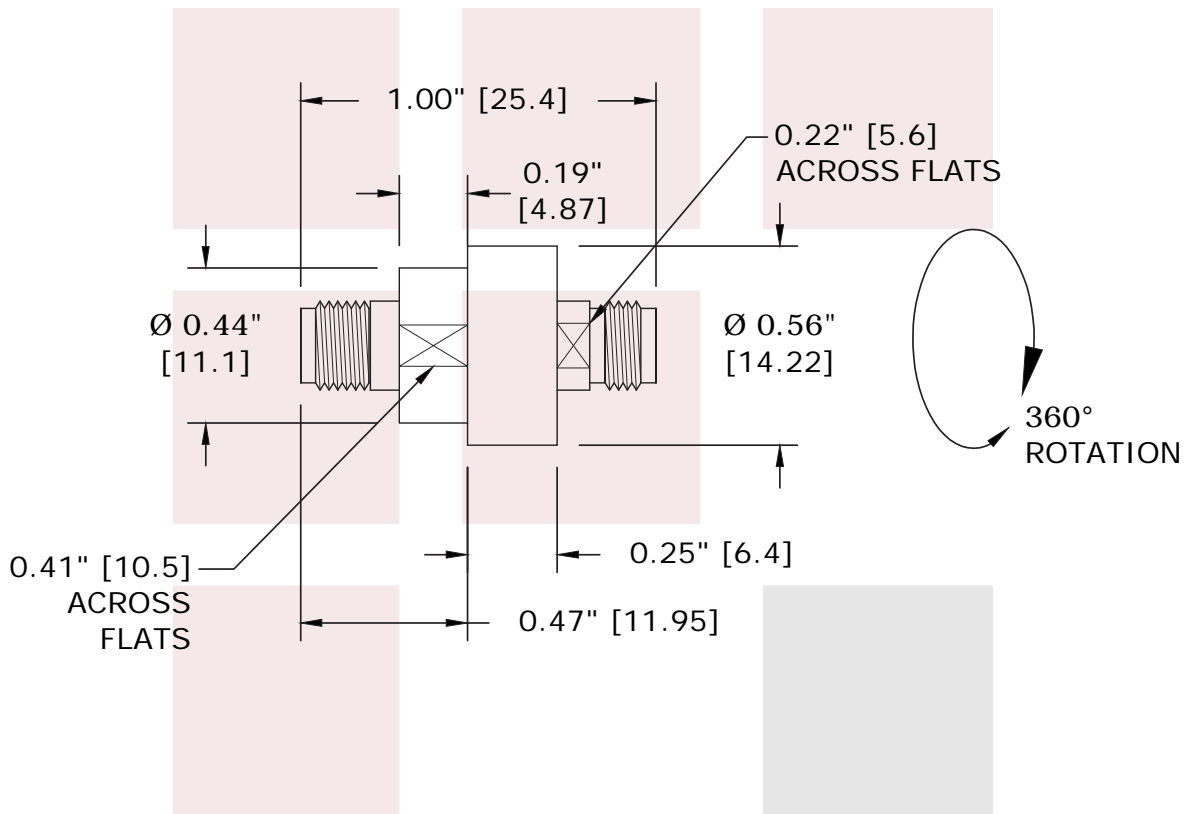


SMA Female to SMA Female Rotary Joint Dual Flat from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female to SMA Female Rotary Joint Dual Flat FMRJ1001](#)

URL: <https://www.fairviewmicrowave.com/sma-female-to-sma-female-rotary-joint-fmrj1001-p.aspx>

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.



|   |        |   |       |                    |             |
|---|--------|---|-------|--------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                    |             |
| TITLE<br>SMA Female to SMA Female Rotary Joint Dual Flat                    |        | DWG NO<br>FMRJ1001  |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE  | 011415 | SHEET   | SCALE | N/A                | SIZE A 5568 |