

**SC Dual Directional Coupler 40 dB Coupled Port From 800 MHz to 4.2 GHz Rated To 600 Watts**

**Electrical Specifications**

| Description        | Min | Typ | Max   | Units |
|--------------------|-----|-----|-------|-------|
| Frequency Range    | 0.8 |     | 4.2   | GHz   |
| Directivity        | 18  |     |       | dB    |
| Impedance          |     | 50  |       | Ohms  |
| Insertion Loss     |     |     | 0.3   | dB    |
| Input Power        |     |     | 600   | Watts |
| Input VSWR         |     |     | 1.3:1 |       |
| Coupling Value     |     | 40  |       | dB    |
| Coupling Tolerance |     |     | ± 1   | dB    |
| Coupling Flatness  |     |     | ± 0.7 | dB    |



**Features:**

- Connector 1: SC Female
- Connector 2: SC Female
- Coupled Connectors: N Female
- Design: Dual Directional Coupler

**Mechanical Specifications**

**Temperature**

Operating Range -55 to +85 deg C

**Size**

Length 3 in [76.2 mm]  
 Width/Dia. 1.09 in [27.69 mm]  
 Height 2.5 in [63.5 mm]

Housing Material and Plating Aluminum Alloy, Chem Film

**Connector 1**

Type SC Female

**Connector 2**

Type SC Female

**Connector 3**

Type N Female

**Connector 4**

Type N Female

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes

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**Plotted and Other Data**

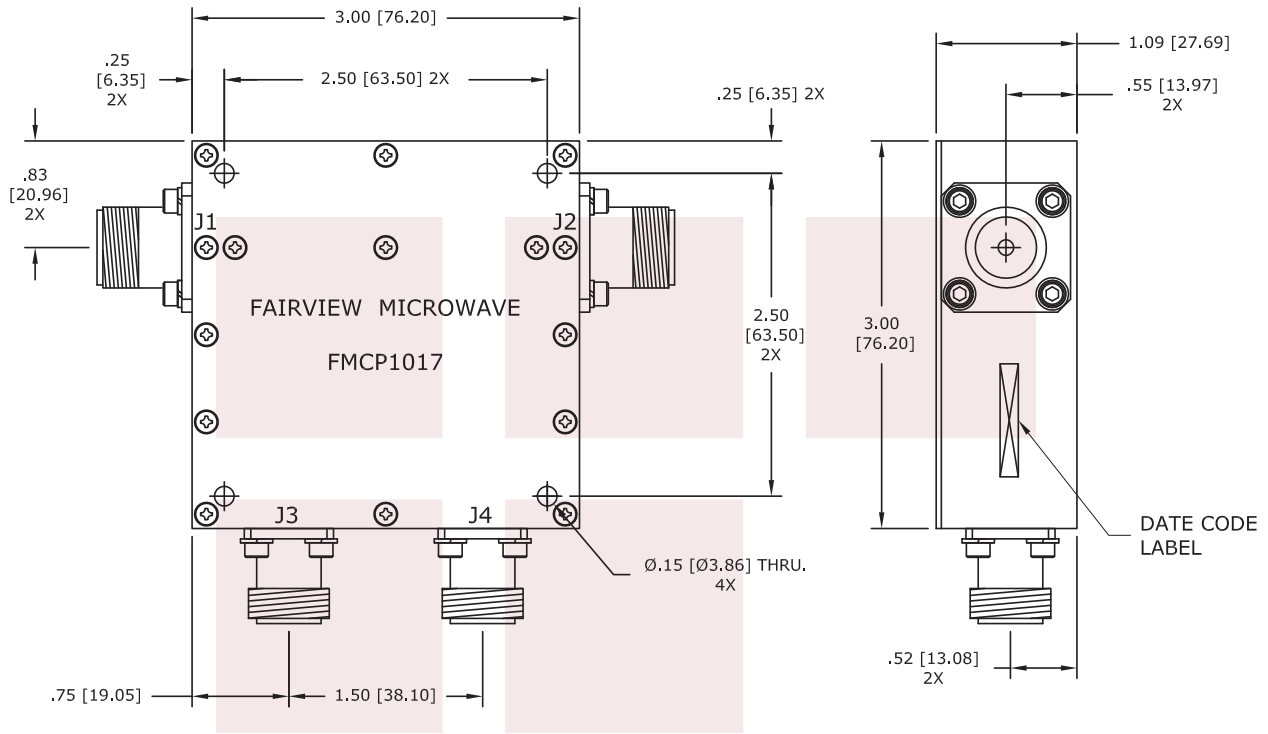
Notes:

SC Dual Directional Coupler 40 dB Coupled Port From 800 MHz to 4.2 GHz Rated To 600 Watts 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: [SC Dual Directional Coupler 40 dB Coupled Port From 800 MHz to 4.2 GHz Rated To 600 Watts FMCP1017](#)

URL: <http://www.fairviewmicrowave.com/sc-dual-directional-coupler-40-db-4.2-ghz-600-watts-fmcp1017-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.



| INPUT | OUTPUT | FORWARD COUPLING | REFLECTED COUPLING |
|-------|--------|------------------|--------------------|
| J1    | J2     | J3               | J4                 |
| J2    | J1     | J4               | J3                 |

|           |                                      |
|-----------|--------------------------------------|
| TOLERANCE | .XX ±.02<br>.XXX ±.005<br>ANG. ±1/2° |
|-----------|--------------------------------------|

\* THESE DIMENSIONS AND TOLERANCES  
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

|   |          |   |       |     |             |
|---|----------|---|-------|-----|-------------|
| <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   | DWG NO   | CAGE CODE   |       |     |             |
| SC Dual Directional Coupler 40 dB Coupled Port From 800 MHz to 4.2 GHz Rated To 600 Watts | FMCP1017 | 3FKR5   |       |     |             |
| CAD FILE  | 041015   | SHEET   | SCALE | N/A | SIZE A 2233 |