

SMA Circulator With 17 dB Isolation From 1 GHz to 2 GHz And 10 Watts



SFC1020

Description

RF circulator SFC1020 from Fairview is just part of a large number of radio frequency products specifically stocked to be highly available for rapid shipment. Fairview Microwave circulator is manufactured with SMA connectors that are female. This 3 port SMA circulator design is rated for a minimum frequency of 1 GHz and a maximum frequency of 2 GHz.

Fairview Microwave SMA RF coaxial circulator part number SFC1020 has a minimum isolation of 17 dB and a maximum input power of 10 Watts. Additional RF specs for this Fairview Microwave component can be found on the circulator datasheet specifications PDF above.

Our coaxial circulator is just part of more than one million RF, microwave and millimeter wave components we carry in-stock. This circulator with SMA connectors is ready to buy and be shipped worldwide. Fairview also stocks a wide selection of other radio frequency coaxial circulators that ship same-day from our warehouse along with rest of our RF, microwave and millimeter wave components.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|---|-----|-----|--------|-------|
| Frequency Range | 1 | | 2 | GHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.75 | dB |
| Dual Junction Isolation (ports 2-1, 4-3) | 17 | | | dB |
| VSWR | | | 1.35:1 | |
| Forward Power, CW | | | 10 | Watts |

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size

| | |
|---------------------------|----------------------|
| Length | 2.44 in [61.98 mm] |
| Width | 1.42 in [36.07 mm] |
| Height | 2.58 in [65.53 mm] |
| Weight | 1.007 lbs [456.77 g] |
| Body Material and Plating | Aluminum |

Configuration

| | |
|-------------|-------------------|
| Design | Single Junction |
| Direction | Counter-Clockwise |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |
| Connector 3 | SMA Female |

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -25 to +80 deg C |
|-----------------|------------------|

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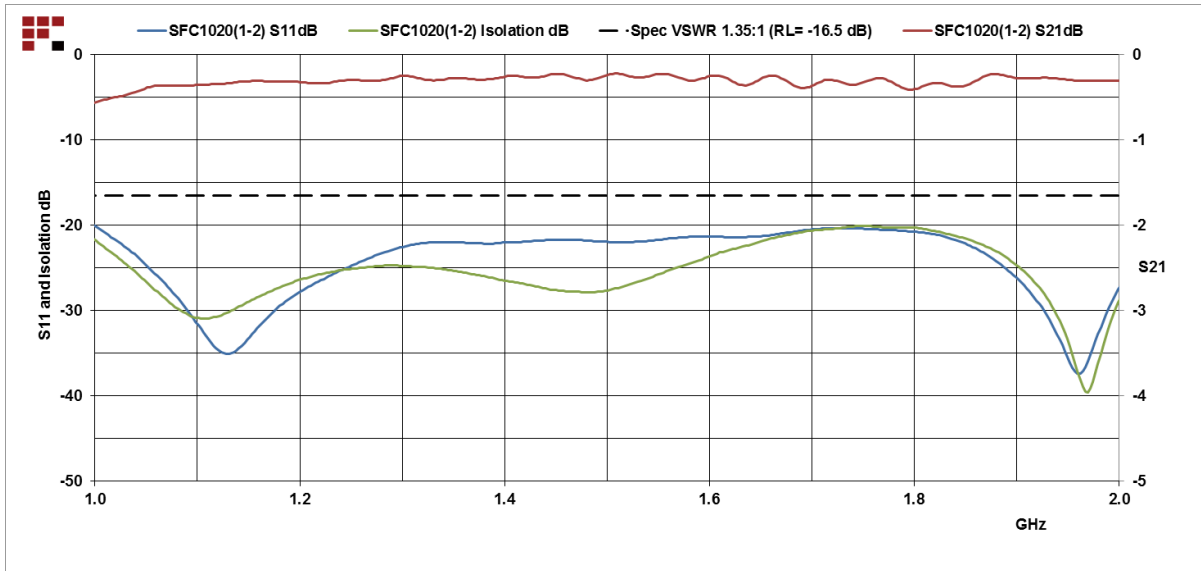
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Typical Performance Data



SMA Circulator With 17 dB Isolation From 1 GHz to 2 GHz And 10 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

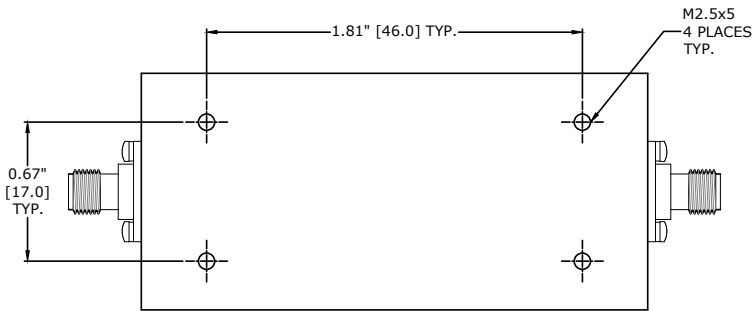
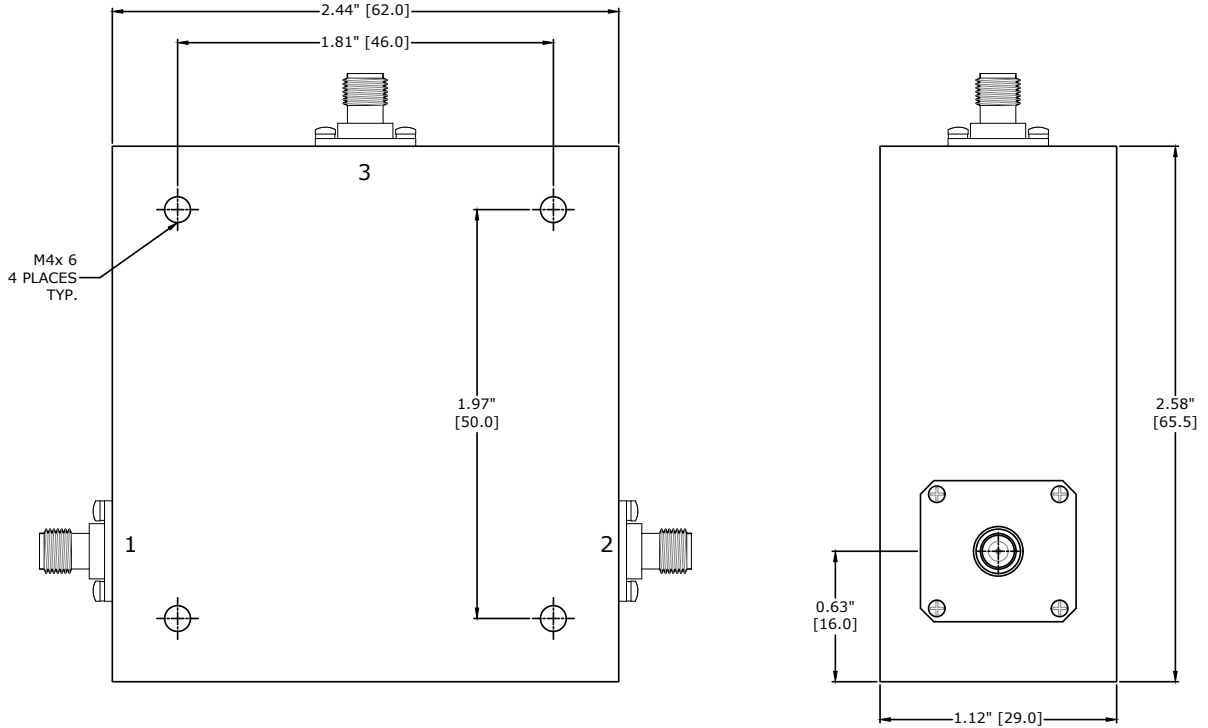
For additional information on this product, please click the following link: [SMA Circulator With 17 dB Isolation From 1 GHz to 2 GHz And 10 Watts SFC1020](#)

URL: <https://www.fairviewmicrowave.com/sma-circulator-17-db-isolation-1-2-ghz-sfc1020-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

SFC1020 CAD Drawing

SMA Circulator With 17 dB Isolation From 1 GHz to 2 GHz And 10 Watts



BOTTOM

| | | | | | |
|---|--------|---|-------|---------------------------|-------------|
| FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM | | 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]. | | | |
| TITLE | | DWG NO SFC1020 | | CAGE CODE 3FKR5 | |
| CAD FILE | 012216 | SHEET | SCALE | N/A | SIZE A 5568 |