

High Power Circulator SMA Female With 20 dB Isolation From 330 MHz to 403 MHz Rated to 150 Watts

Fairview Microwave carries a broad selection of circulators to fit your needs. These unique devices allow two different direction signals to share the same channel. The classic use of this three port device is for routing signals between an antenna and a transceiver, allowing the receive signal to enter from the antenna (port 1) and exit to the receiver (port 2) while the transmit signal enters from the transmitter (port 3) and exits to the antenna (port 1). The circulator can also be used as an isolator by placing a matched load into one of the ports. These components can be used in antenna transmitting and receiving, radar, amplifier systems and any application that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

The SFC3340S is a high power single junction circulator that operates from 330 to 403 MHz and can handle up to 150 Watts (CW) in the forward direction and 70 Watts (CW) in the reverse direction. The coaxial part uses SMA female connectors on all ports and has electrical specifications of 1.25:1 max VSWR, 20 dB min isolation and 0.5 dB max insertion loss. The package is REACH and RoHS certified.



Features:

- High Power Single Junction Circulator
- 330 to 403 MHz Frequency Range
- Max Forward Power 150W (CW)
- Max Reverse Power 70W (CW)
- Insertion Loss < 0.5 dB
- VSWR < 1.25:1
- Isolation > 20 dB
- SMA Female Connectors

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-------------------|-----|-----|--------|-------|
| Frequency Range | 330 | | 403 | MHz |
| Impedance | | 50 | | Ohms |
| Insertion Loss | | | 0.5 | dB |
| Isolation | 20 | | | dB |
| VSWR | | | 1.25:1 | |
| Forward Power, CW | | | 150 | Watts |
| Reverse Power, CW | | | 70 | Watts |

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

Mechanical Specifications

| | |
|-------------|-------------------|
| Size | |
| Length | 3 in [76.2 mm] |
| Width | 3 in [76.2 mm] |
| Height | 1.2 in [30.48 mm] |
| Weight | 1.045 lbs [474 g] |

Configuration

| | |
|---------------|-----------------|
| Design | Single Junction |
| Package Style | Connectorized |
| Connector 1 | SMA Female |
| Connector 2 | SMA Female |
| Connector 3 | SMA Female |

Environmental Specifications

| | |
|--------------------|------------------|
| Temperature | |
| Operating Range | -30 to +70 deg C |

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

| | |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Applications:

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

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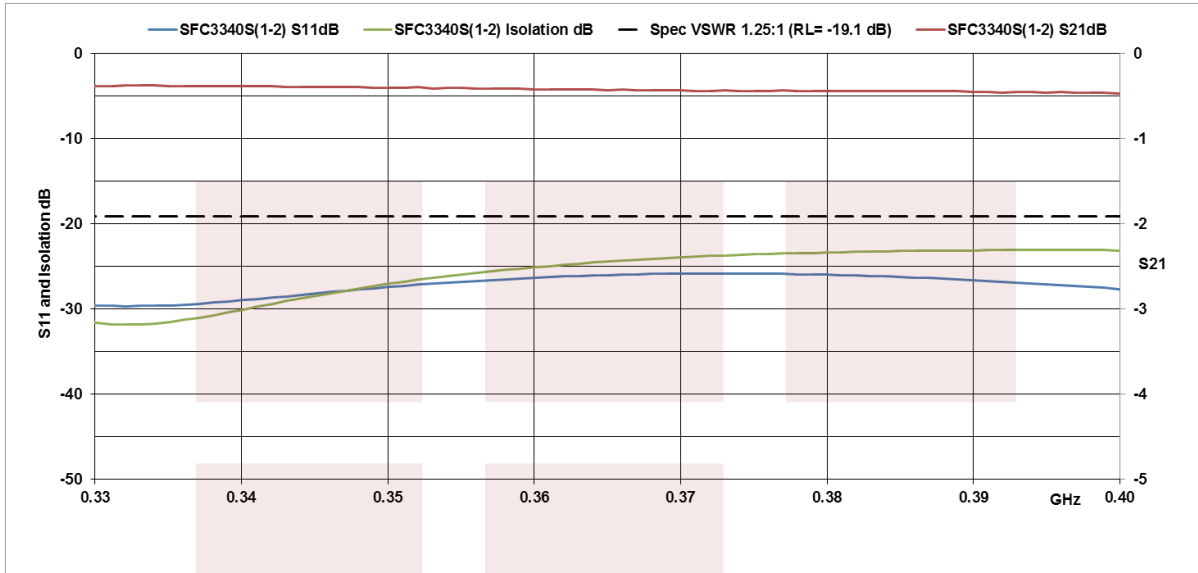
REACH Compliant

12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data

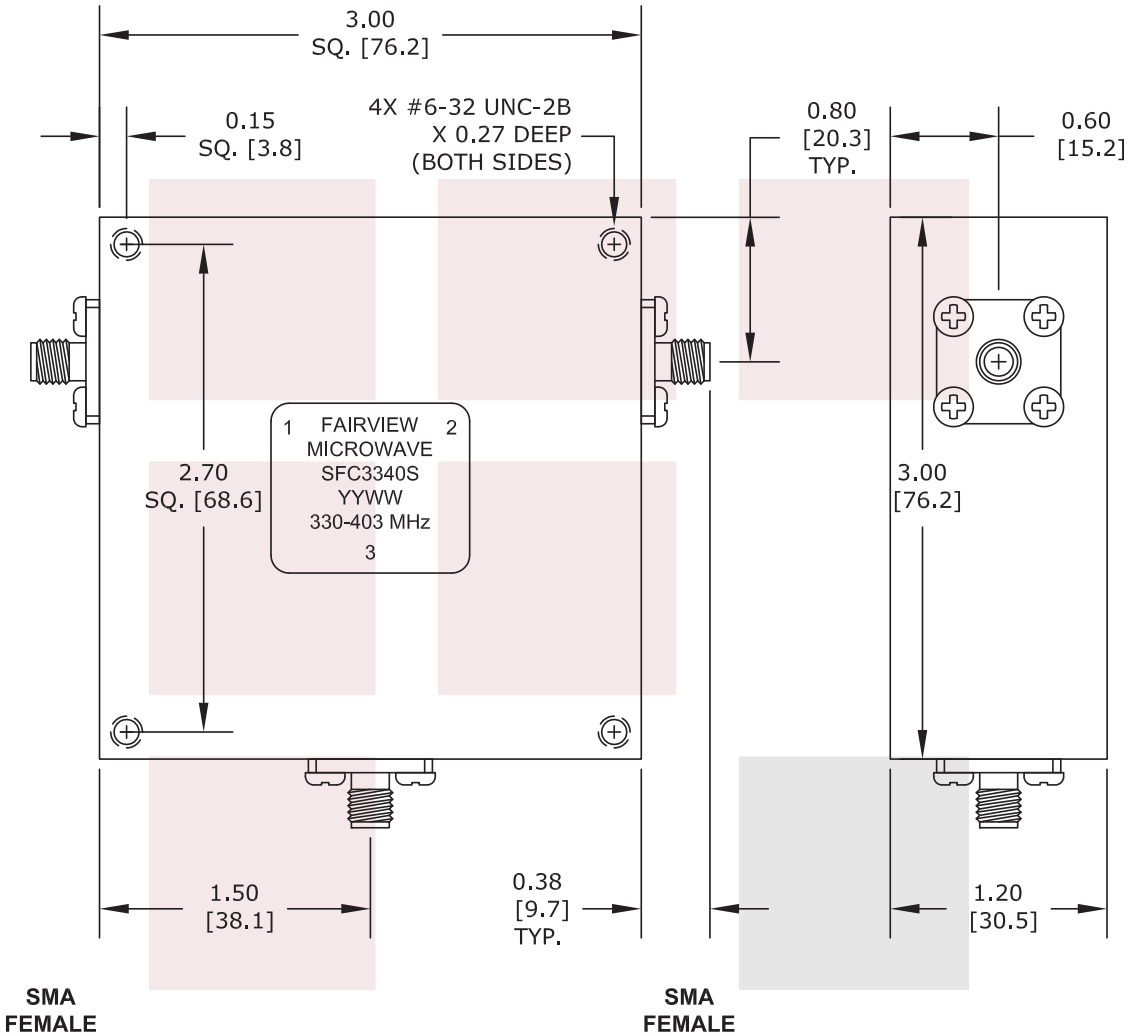


High Power Circulator SMA Female With 20 dB Isolation From 330 MHz to 403 MHz Rated to 150 Watts from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [High Power Circulator SMA Female With 20 dB Isolation From 330 MHz to 403 MHz Rated to 150 Watts SFC3340S](#)

URL: <http://www.fairviewmicrowave.com/sma-circulator-20-db-isolation-330-403-mhz-150-watts-sfc3340s-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.



| STANDARD TOLERANCES | |
|---------------------|--------|
| .XX | ±0.01 |
| .XXX | ±0.005 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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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
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| | | | | | |
|----------|----------|-----------|-------|-----|-------------|
| DWG NO | SFC3340S | CAGE CODE | 3FKR5 | | |
| CAD FILE | 041316 | SHEET | SCALE | N/A | SIZE A 3045 |