

SMA Female to 1.85mm Male Adapter

SMA female to 1.85mm male adapter part number SM3951 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to 1.85mm adapter has a female to male gender configuration. SM3951 SMA female to 1.85mm male adapter operates to 27 GHz. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. The 1.85mm connector mates mechanically with commercially available 2.4mm connectors. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

| Description | Min | Typ | Max | Units |
|-----------------|-----|-----|-------|-------|
| Frequency Range | DC | | 27 | GHz |
| VSWR | | | 1.2:1 | |

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

Mechanical Specifications

| | | |
|-------------|--|--------------------|
| Size | | |
| Length | | 0.77 in [19.56 mm] |
| Weight | | 0.011 lbs [4.99 g] |

| Description | Connector 1 | Connector 2 |
|---------------|-------------|-------------------------------------|
| Type | SMA Female | 1.85mm Male |
| Polarity | Standard | Standard |
| Mating Cycles | 500 | 500 |
| Mating Torque | | 8 to 10 in-lbs [0.90 to 1.13 Nm] |



Configuration:

- SMA Female Connector 1
- 1.85mm Male Connector 2
- 50 Ohms
- Straight Body Geometry

Features:

- VSWR of 1.2:1 max up to 27 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

| Description | Connector 1 | Connector 2 |
|-----------------------------|----------------------------|----------------------------|
| Type | SMA Female | 1.85mm Male |
| Contact Material | Beryllium Copper | Beryllium Copper |
| Contact Plating | Gold over Nickel | Gold over Nickel |
| Contact Plating Spec. | MIL-G-45204 | MIL-G-45204 |
| Insulation Material | PTFE | Oxide-Noryl |
| Outer Contact Material | Passivated Stainless Steel | |
| Outer Contact Plating Spec. | ASTM A380 | |
| Body Material | | Passivated Stainless Steel |
| Body Plating Spec. | | ASTM A380 |
| Coupling Nut Material | | Passivated Stainless Steel |
| Coupling Nut Plating Spec. | | ASTM A380 |

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

Vibration

MIL-STD-202, Method 204, Condition D (20 G's)

Salt Spray

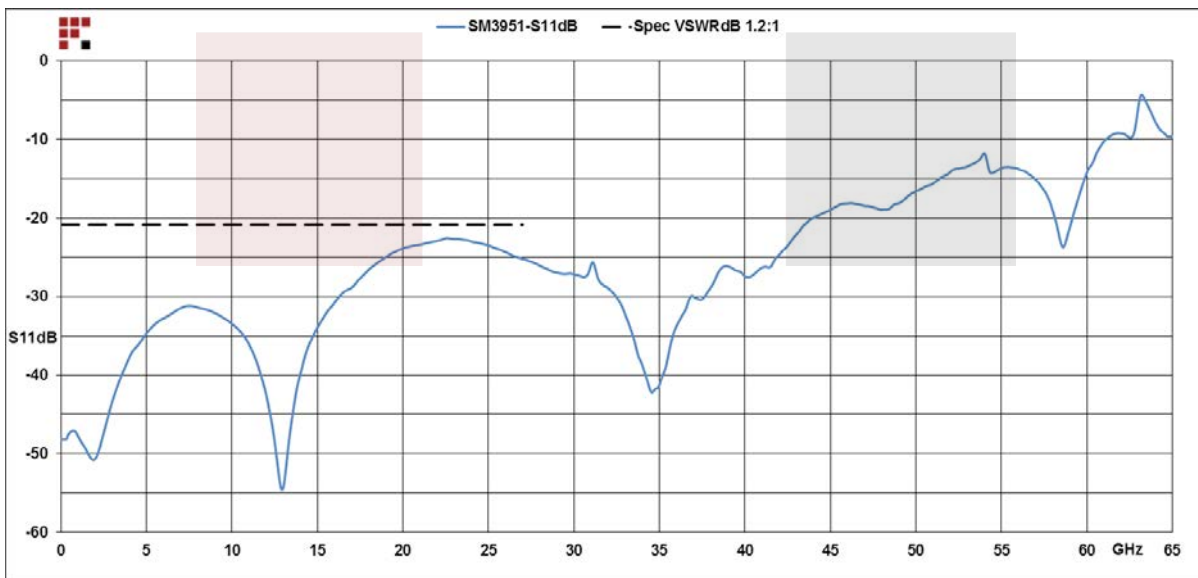
MIL-STD-202, Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Notes:

Typical Performance Data



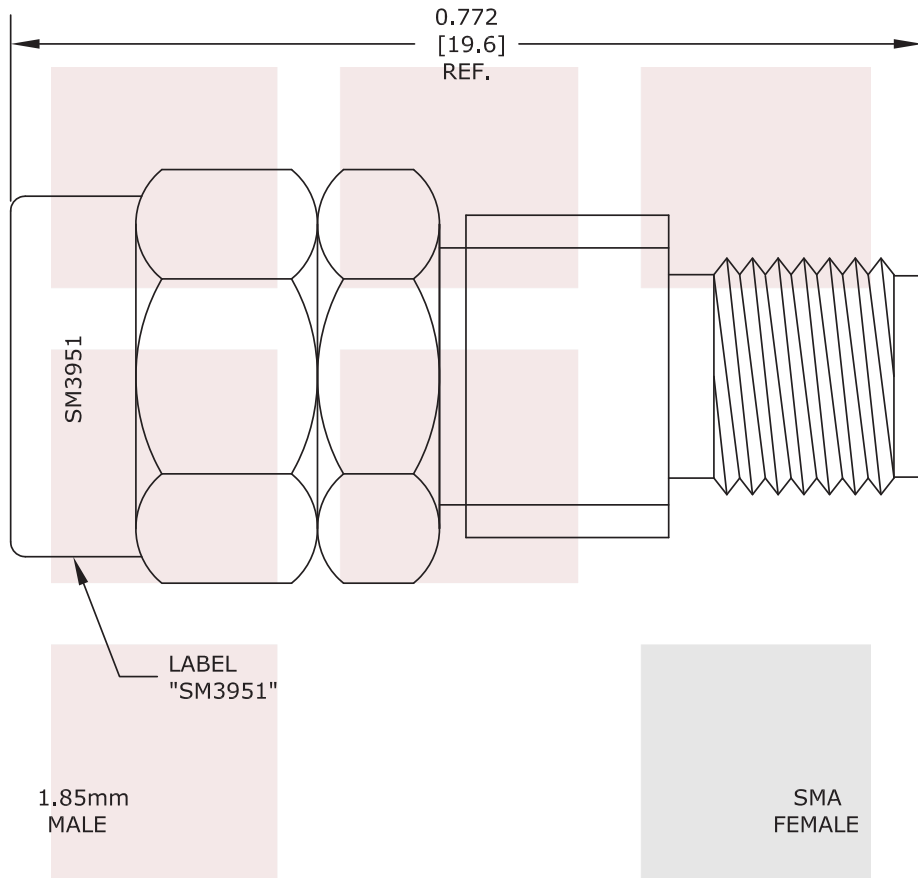
SMA Female to 1.85mm Male Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female to 1.85mm Male Adapter SM3951](#)

URL: <https://www.fairviewmicrowave.com/sma-female-1.85mm-male-adapter-sm3951-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 | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

| | | | | | |
|-----------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|--------------|
| 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 SMA Female to 1.85mm Male Adapter | | DWG NO SM3951 | | CAGE CODE 3FKR5 | |
| CAD FILE | 091416 | SHEET | SCALE | N/A | SIZE A 41742 |