

## SMA Male to TNC Female Adapter

SMA male to TNC female adapter part number FMAD1070 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC adapter has a male to female gender configuration and is built of durable stainless steel. FMAD1070 SMA male to TNC female adapter operates to 11 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors.

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  |     | 11    | GHz   |
| VSWR                   |     |     | 1.3:1 |       |
| Operating Voltage (AC) |     |     | 500   | Vrms  |

### Mechanical Specifications

| Size   |                      |
|--------|----------------------|
| Length | 1.03 in [26.16 mm]   |
| Width  | 0.5 in [12.7 mm]     |
| Height | 0.5 in [12.7 mm]     |
| Weight | 0.0252 lbs [11.43 g] |

| Description             | Connector 1                        | Connector 2  |
|-------------------------|------------------------------------|--------------|
| Type                    | SMA Male                           | TNC Female   |
| Polarity                | Standard                           | Standard     |
| Interface Specification | MIL-STD-348A                       | MIL-STD-348A |
| Hex Size                | 5/16 in.                           |              |
| Mating Torque           | 3 to 5 in-lbs<br>[0.34 to 0.57 Nm] |              |



### Configuration:

- SMA Male Connector 1
- TNC Female Connector 2
- 50 Ohm
- Straight Body Geometry

### Features:

- VSWR of 1.3:1 max up to 11 GHz
- SMA interface meets MIL-STD-348A
- TNC interface meets MIL-STD-348A
- 50μ in. min. contact plating
- 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 Male                   | TNC Female                 |
| Contact Material       | Beryllium Copper           | Beryllium Copper           |
| Contact Plating        | Gold over Nickel           | Gold over Nickel           |
| Contact Plating Spec.  | 50µ in. min.               | 50µ in. min.               |
| Insulation Material    | PTFE                       | PTFE                       |
| Outer Contact Material |                            | Passivated Stainless Steel |
| Body Material          | Passivated Stainless Steel | Passivated Stainless Steel |
| Gasket Material        | Silicone                   | Silicone                   |
| Coupling Nut Material  | Passivated Stainless Steel |                            |

**Environmental Specifications**

**Temperature**

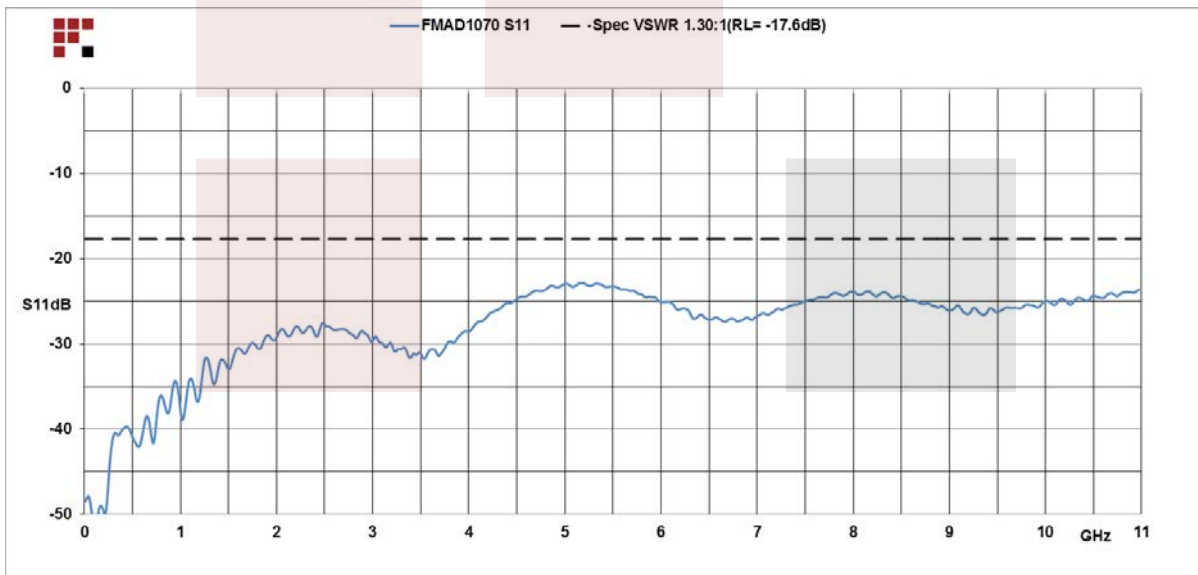
Operating Range -65 to +165 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



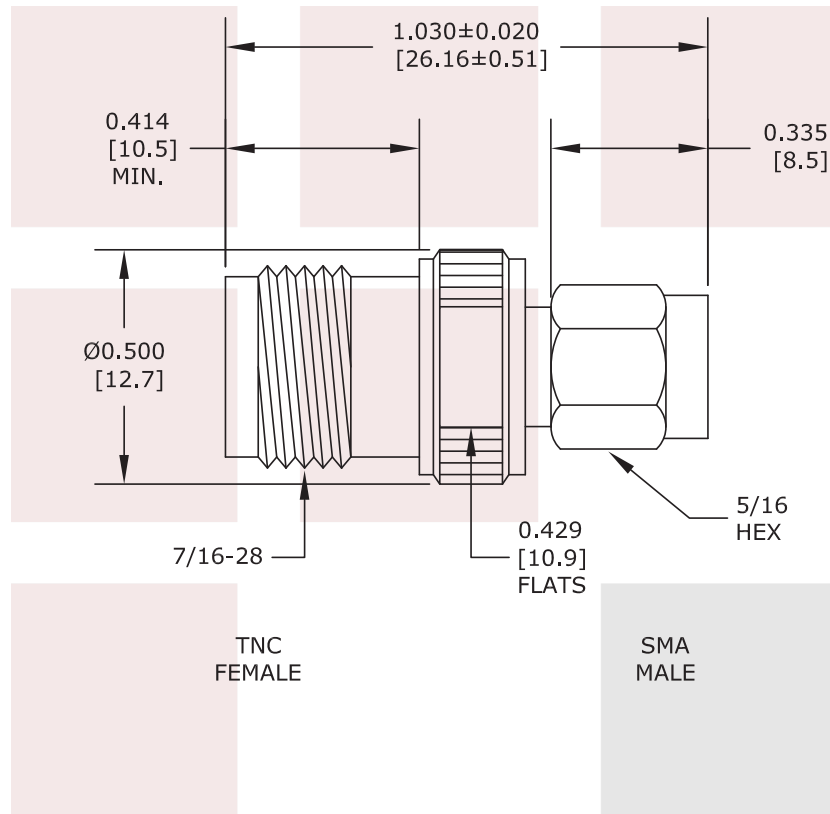
SMA Male to TNC Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male to TNC Female Adapter FMAD1070](#)

URL: <https://www.fairviewmicrowave.com/sma-male-tnc-female-adapter-fmad1070-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

|   |        |   |       |                    |             |
|---|--------|---|-------|--------------------|-------------|
| <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 Male to TNC Female Adapter                                     |        | DWG NO<br>FMAD1070  |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE  | 042517 | SHEET   | SCALE | N/A                | SIZE A 2233 |