

1.0mm Female to 1.85mm Male Adapter

1.0mm female to 1.85mm male adapter part number SM3974 from Fairview Microwave is in-stock and ships same day. This Fairview 1.0mm to 1.85mm adapter has a female to male gender configuration. SM3974 1.0mm female to 1.85mm male adapter operates to 65 GHz. The 1.85mm connector mates mechanically with commercially available 2.4mm connectors. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 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 | | 65 | GHz |
| VSWR | | | 1.25:1 | |

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

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.7 in [17.78 mm] |
| Width | 0.312 in [7.92 mm] |
| Weight | 0.01 lbs [4.54 g] |

| Description | Connector 1 | Connector 2 |
|-------------|--------------|-------------|
| Type | 1.0mm Female | 1.85mm Male |
| Polarity | Standard | Standard |
| Hex Size | | 5/16 inch |



Configuration:

- 1.0mm Female Connector 1
- 1.85mm Male Connector 2
- 50 Ohms
- Straight Body Geometry

Features:

- VSWR of 1.25:1 max up to 65 GHz
- 50 µin minimum contact plating
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

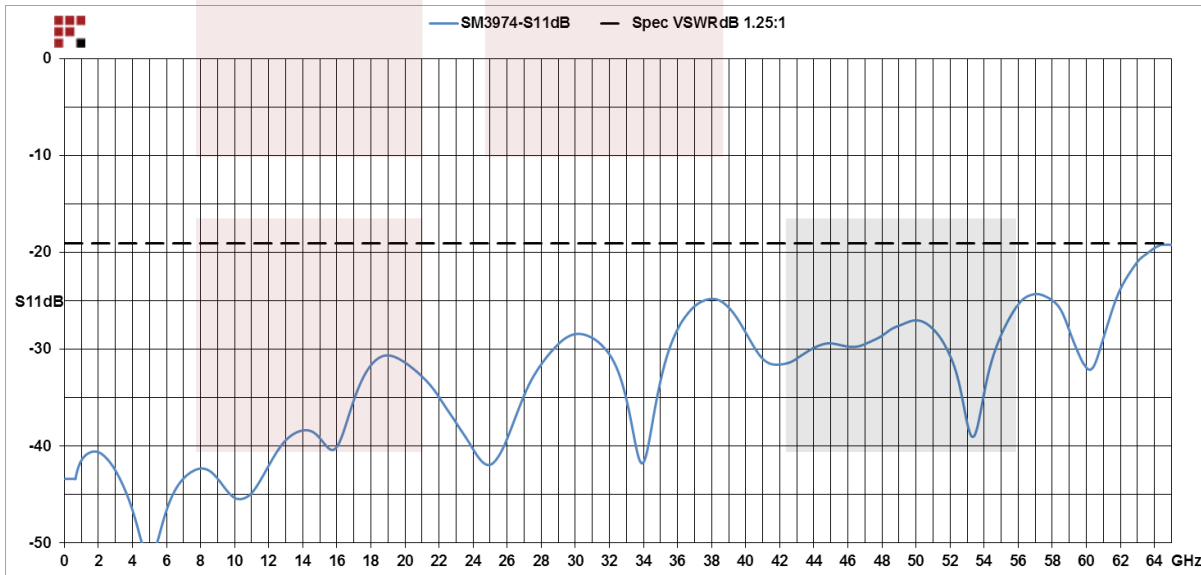
| Description | Connector 1 | Connector 2 |
|-----------------------------|----------------------------|----------------------------|
| Type | 1.0mm Female | 1.85mm Male |
| Contact Material | Beryllium Copper | Beryllium Copper |
| Contact Plating | Gold over Nickel | Gold over Nickel |
| Contact Plating Spec. | 50 µin minimum | 50 µin minimum |
| Insulation Material | PEI | PEI |
| Outer Contact Material | Passivated Stainless Steel | |
| Outer Contact Plating Spec. | SAE-AMS-2700 | |
| Body Material | | Passivated Stainless Steel |
| Body Plating Spec. | | SAE-AMS-2700 |
| Coupling Nut Material | | Passivated Stainless Steel |
| Coupling Nut Plating Spec. | | SAE-AMS-2700 |

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

Plotted and Other Data

Notes:

Typical Performance Data



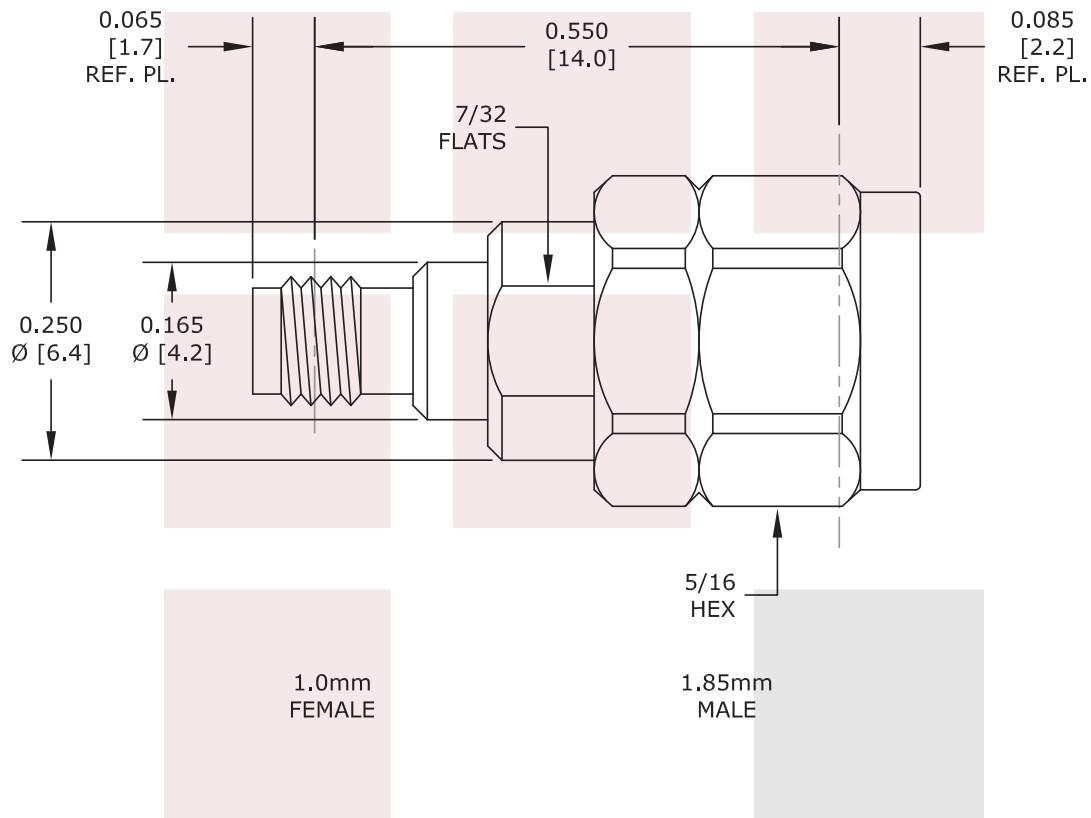
1.0mm Female to 1.85mm Male Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1.0mm Female to 1.85mm Male Adapter SM3974](#)

URL: <https://www.fairviewmicrowave.com/precision-1.0mm-female-1.85mm-male-adapter-sm3974-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.





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|---|--------|---|-------|--------------------|------------|
| 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 1.0mm Female to 1.85mm Male Adapter | | DWG NO SM3974 | | CAGE CODE 3FKR5 | |
| CAD FILE | 120915 | SHEET | SCALE | N/A | SIZE A 150 |