

## N Male to N Male Adapter

Type N male to type N male adapter part number SM4013 from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N adapter has a male to male gender configuration. SM4013 type N male to type N male adapter operates to 12.4 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.4:1 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  |     | 12.4  | GHz   |
| VSWR            |     |     | 1.4:1 |       |

### Specifications by Frequency

| Description     | F1      | F2        | F3 | F4 | F5 | Units |
|-----------------|---------|-----------|----|----|----|-------|
| Frequency Range | DC to 6 | 6 to 12.4 |    |    |    | GHz   |
| VSWR, Max       | 1.2:1   | 1.4:1     |    |    |    |       |

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

### Mechanical Specifications

|             |                      |
|-------------|----------------------|
| <b>Size</b> |                      |
| Length      | 1.590 in [40.4 mm]   |
| Width       | 0.78 in [19.81 mm]   |
| Weight      | 0.1275 lbs [57.83 g] |

| Description             | Connector 1 | Connector 2 |
|-------------------------|-------------|-------------|
| Type                    | N Male      | N Male      |
| Polarity                | Standard    | Standard    |
| Interface Specification | MIL-STD-348 | MIL-STD-348 |

Mechanical Specification Notes:

Note: The glass bead seal in the center of the adapter is sensitive to shock and axial pressure. If the adapter is subjected to shock and overtightening of the coupling nut, the glass bead interseal will shatter easily.



### Configuration:

- N Male Connector 1
- N Male Connector 2
- 50 Ohm
- Straight Body Geometry

### Features:

- VSWR of 1.4:1 max up to 12.4 GHz
- Type N interface meets MIL-STD-348
- Contact plating according to ASTM B700
- Silver Plated Brass Contact

### Applications:

- General Purpose Test

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**Material Specifications**

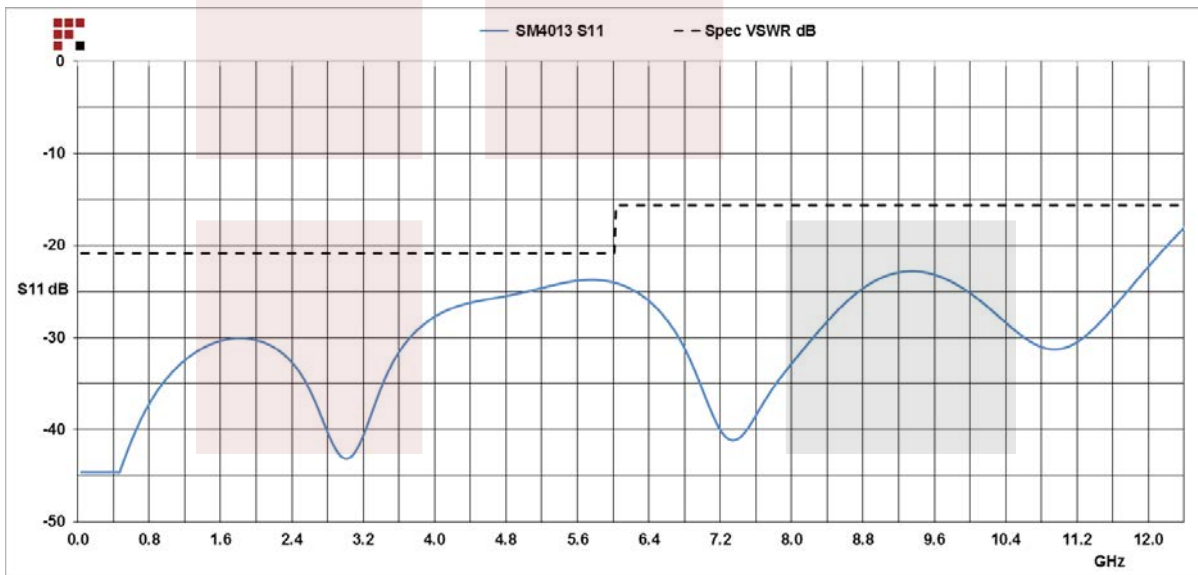
| Description                | Connector 1 | Connector 2 |
|----------------------------|-------------|-------------|
| Type                       | N Male      | N Male      |
| Contact Material           | Brass       | Brass       |
| Contact Plating            | Silver      | Silver      |
| Contact Plating Spec.      | ASTM B700   | ASTM B700   |
| Insulation Material        | PTFE        | PTFE        |
| Body Material              | Brass       | Brass       |
| Body Plating               | Nickel      | Nickel      |
| Body Plating Spec.         | QQ-N-290    | QQ-N-290    |
| Coupling Nut Material      | Brass       | Brass       |
| Coupling Nut Plating       | Nickel      | Nickel      |
| Coupling Nut Plating Spec. | QQ-N-290    | QQ-N-290    |

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



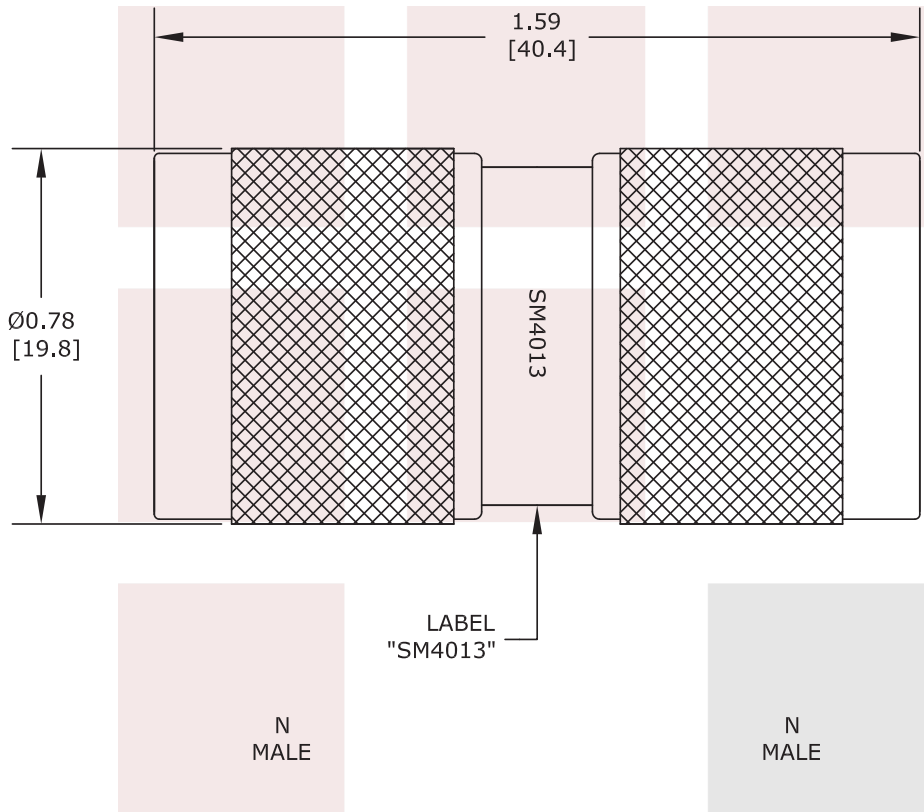
N Male to N Male Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Male to N Male Adapter SM4013](#)

URL: <https://www.fairviewmicrowave.com/n-male-n-male-adapter-sm4013-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>N Male to N Male Adapter   |        | DWG NO<br>SM4013  |       | CAGE CODE<br>3FKR5 |              |
| CAD FILE  | 101016 | SHEET   | SCALE | N/A                | SIZE A 41742 |