

Low PIM N Male to N Male Adapter

Low PIM type N male to type N male adapter part number SM4075 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 in a Low PIM design. SM4075 type N male to type N male adapter operates to 6 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum and passive intermodulation of -155 dBc 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 | | 6 | GHz |
| VSWR | | | 1.2:1 | |
| Passive Intermodulation (using 2x20W tones) | | | -155 | dBc |
| Operating Voltage (AC) | | | 1,000 | Vrms |
| DWV (AC) | | | 2,500 | Vrms |

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

Mechanical Specifications

| | |
|-------------|--------------------|
| Size | |
| Length | 1.6 in [40.64 mm] |
| Width | 0.79 in [20.07 mm] |
| Weight | 0.14 lbs [63.5 g] |

| Description | Connector 1 | Connector 2 |
|-------------------------|-------------|-------------|
| Type | N Male | N Male |
| Polarity | Standard | Standard |
| Interface Specification | IEC 169-16 | IEC 169-16 |
| Mating Cycles | 500 | 500 |
| Hex Size | 20 mm | 20 mm |



Configuration:

- N Male Connector 1
- N Male Connector 2
- 50 Ohms
- Low PIM Design
- Straight Body Geometry

Features:

- VSWR of 1.2:1 max up to 6 GHz
- PIM levels better than -155 dBc
- N interface meets IEC 169-16
- 5 µm minimum contact plating
- Silver Plated Beryllium Copper Contact

Applications:

- General Purpose Test

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Material Specifications

| Description | Connector 1 | Connector 2 |
|-----------------------|------------------|------------------|
| Type | N Male | N Male |
| Contact Material | Beryllium Copper | Beryllium Copper |
| Contact Plating | Silver | Silver |
| Contact Plating Spec. | 5 µm minimum | 5 µm minimum |
| Insulation Material | PTFE | PTFE |
| Body Material | Brass | Brass |
| Body Plating | Tri-Metal | Tri-Metal |
| Coupling Nut Material | Brass | Brass |
| Coupling Nut Plating | Tri-Metal | Tri-Metal |

Environmental Specifications

Temperature

Operating Range

-45 to +125 deg C

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

Plotted and Other Data

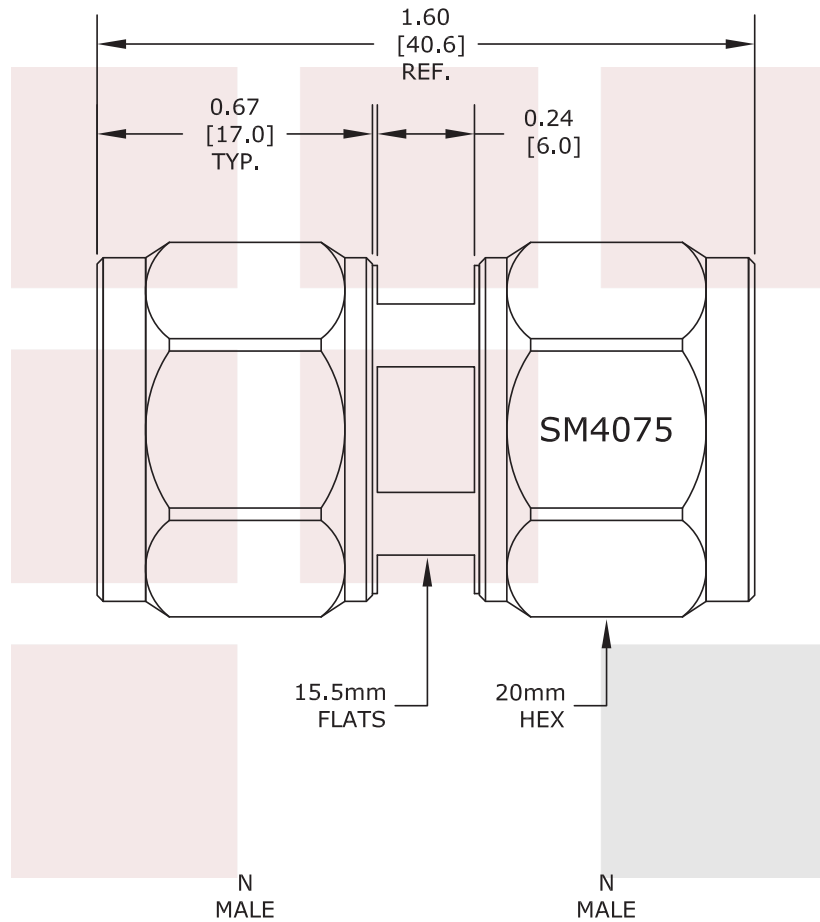
Notes:

Low PIM 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 Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low PIM N Male to N Male Adapter SM4075](#)

URL: <https://www.fairviewmicrowave.com/n-male-n-male-adapter-sm4075-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 Low PIM N Male to N Male Adapter | | DWG NO SM4075 | | CAGE CODE 3FKR5 | |
| CAD FILE | 121015 | SHEET | SCALE | N/A | SIZE A 150 |