

Radius RA TNC Male to TNC Female Adapter

Radius RA TNC male to TNC female adapter part number SM5746 from Fairview Microwave is in-stock and ships same day. This Fairview TNC to TNC adapter has a male to female gender configuration. SM5746 TNC male to TNC female adapter operates to 18 GHz. This low profile radius right angle TNC adapter allows for easier connections in tight spaces. The Fairview Microwave RF adapter provides good VSWR of 1.35:1 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 | | 18 | GHz |
| VSWR | | | 1.35:1 | |
| Operating Voltage (AC) | | | 500 | Vrms |
| DWV (AC) | | | 1,500 | Vrms |
| High Potential Voltage | | | 1,000 | Vrms |
| Corona Discharge | | | 375 | Vrms |
| Inner Conductor DC Resistance | | | 3 | mOhms |
| Outer Conductor DC Resistance | | | 2 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |

Electrical Specification Notes:
 Values at 25°C, sea level.
 RF leakage -90 dB max from 2 to 3 GHz.

Mechanical Specifications

| | |
|-------------|---------------------|
| Size | |
| Length | 0.955 in [24.26 mm] |
| Width | 0.89 in [22.61 mm] |
| Weight | 0.052 lbs [23.59 g] |

| Description | Connector 1 | Connector 2 |
|-------------------------|-------------|-------------|
| Type | TNC Male | TNC Female |
| Polarity | Standard | Standard |
| Interface Specification | MIL-STD-348 | MIL-STD-348 |
| Mating Cycles | 500 | 500 |
| Hex Size | 9/16 Inch | |



Configuration:

- TNC Male Connector 1
- TNC Female Connector 2
- 50 Ohms
- Radius Right Angle Body Geometry

Features:

- VSWR of 1.35:1 max up to 18 GHz
- TNC interface meets MIL-STD-348
- Contact plating according to ASTM B-488
- Gold Plated Beryllium Copper Contact

Applications:

- General Purpose Test

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Material Specifications

| Description | Connector 1 | Connector 2 |
|-------------------------------|----------------------------|----------------------------|
| Type | TNC Male | TNC Female |
| Contact Material | Beryllium Copper | Beryllium Copper |
| Contact Plating | Gold | Gold |
| Contact Plating Spec. | ASTM B-488 | ASTM B-488 |
| Insulation Material | PTFE | PTFE |
| Outer Contact Material | | Passivated Stainless Steel |
| Outer Conductor Contact Spec. | | ASTM A-967 |
| Body Material | Passivated Stainless Steel | |
| Body Plating Spec. | ASTM A-967 | |
| Coupling Nut Material | Passivated Stainless Steel | |
| Coupling Nut Plating Spec. | ASTM A-967 | |

Environmental Specifications

Temperature

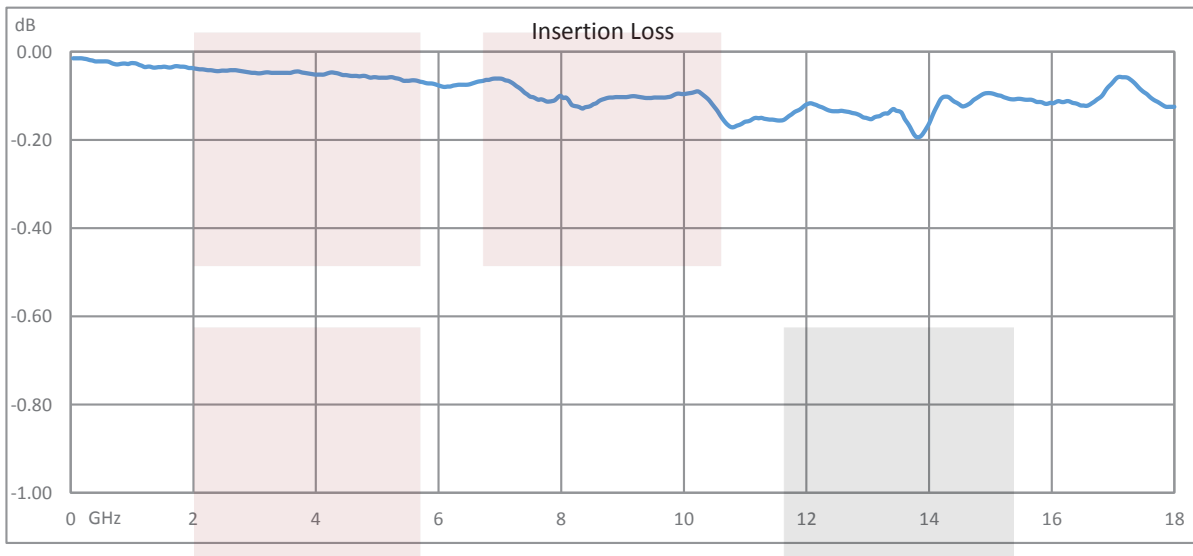
| | |
|-----------------|---|
| Operating Range | -65 to +165 deg C |
| Humidity | MIL-STD-202, Method 106 |
| Shock | MIL-STD-202, Method 213, Test Condition I |
| Vibration | MIL-STD-202, Method 204, Test Condition D |
| Salt Spray | MIL-STD-202, Method 101, Condition B |

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

Plotted and Other Data

Notes:

Typical Performance Data

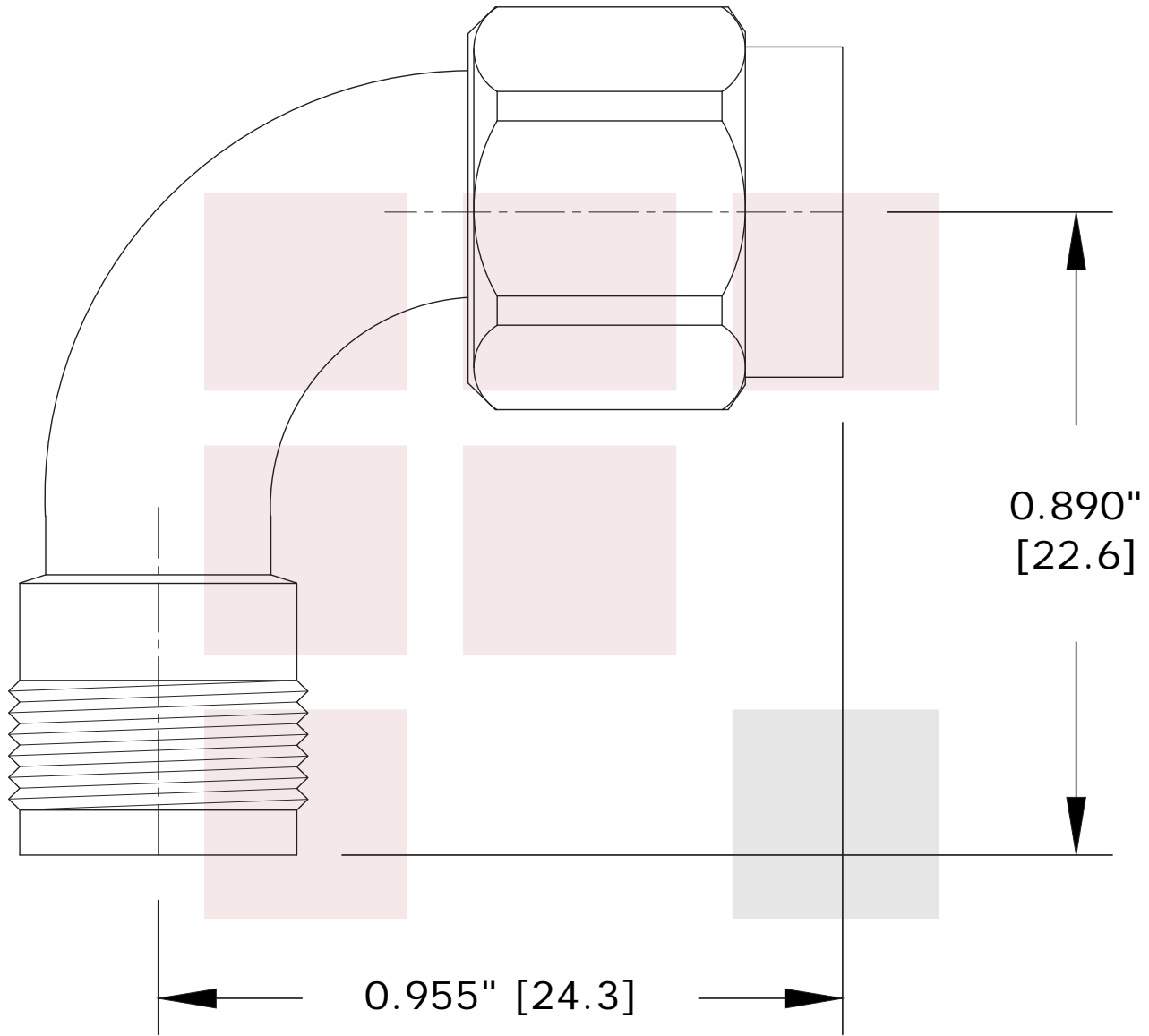


Radius RA TNC Male to TNC Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Radius RA TNC Male to TNC Female Adapter SM5746](#)

URL: <https://www.fairviewmicrowave.com/radius-ra-tnc-male-tnc-female-adapter-sm5746-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 Radius RA TNC Male to TNC Female Adapter | | DWG NO SM5746 | | CAGE CODE 3FKR5 | |
| CAD FILE | 011415 | SHEET | SCALE | N/A | SIZE A 5568 |