

**15 dB Fixed Attenuator TNC Male To TNC Female Up To 3 GHz Rated To 1 Watt With Brass Tri-Metal Body**

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock selections and ships them same day. The SA3T-15 is a 15 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 1 Watt. The versatile coaxial package uses TNC male to TNC female connectors and is also REACH and RoHS compliant.



**Features:**

- DC to 3 GHz Frequency Range
- Attenuation 15 dB
- Max Power 1 Watt (CW)
- VSWR < 1.25:1

**Applications:**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

**Electrical Specifications**

| Description                       | Min | Typ | Max    | Units |
|-----------------------------------|-----|-----|--------|-------|
| Frequency Range                   | DC  |     | 3      | GHz   |
| Impedance                         |     | 50  |        | Ohms  |
| Nominal Attenuation               |     | 15  |        | dB    |
| VSWR                              |     |     | 1.25:1 |       |
| Input Power, CW                   |     |     | 1      | Watts |
| Input Power, Peak<br>for 25 µsec. |     |     | 100    | Watts |

**Electrical Specification Notes:**

Power coefficient of 0.001 dB/W (change in attenuation with increase in power)  
 Temperature coefficient of 0.001 dB/°C max., 0.0003 dB/°C typ.

**Mechanical Specifications**

**Size**

Length 2.08 in [52.83 mm]  
 Width/Diameter 0.63 in [16 mm]  
 Weight 0.0924 lbs [41.91 g]  
 Body Material and Plating Brass, Tri-Metal

**Configuration**

Design Fixed  
 Package Style Connectorized Module

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**Connectors**

| Description                | Connector 1           | Connector 2           |
|----------------------------|-----------------------|-----------------------|
| Type                       | TNC Male              | TNC Female            |
| Contact Material & Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Contact Plating Spec.      | 10 μ-in.              | 10 μ-in.              |
| Dielectric Type            | Teflon                | Teflon                |
| Body Material & Plating    | Brass, Tri-Metal      | Brass, Tri-Metal      |
| Body Plating Spec.         | 100 μ-in.             | 100 μ-in.             |

**Environmental Specifications**

**Temperature**

Operating Range -50 to +80 deg C

**Compliance Certifications** (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

RoHS Compliant Yes  
 REACH Compliant 12/17/2015

**Plotted and Other Data**

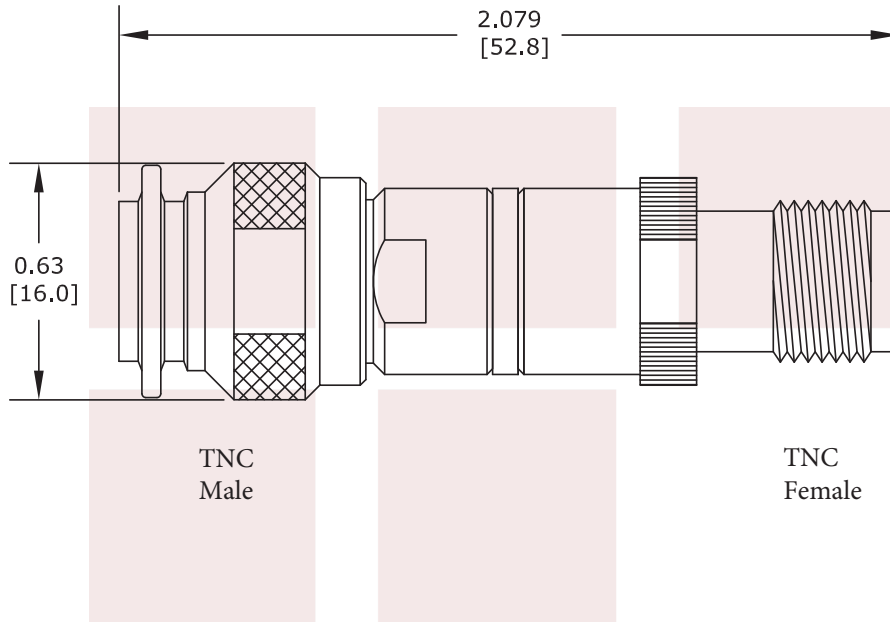
Notes:

15 dB Fixed Attenuator TNC Male To TNC Female Up To 3 GHz Rated To 1 Watt With Brass Tri-Metal Body 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: [15 dB Fixed Attenuator TNC Male To TNC Female Up To 3 GHz Rated To 1 Watt With Brass Tri-Metal Body SA3T-15](#)

URL: <https://www.fairviewmicrowave.com/15db-fixed-attenuator-tnc-male-tnc-female-1-watt-sa3t-15-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.



| P/N     | ATTEN. |
|---------|--------|
| SA3T-03 | 3 dB   |
| SA3T-06 | 6 dB   |
| SA3T-10 | 10 dB  |
| SA3T-15 | 15 dB  |
| SA3T-20 | 20 dB  |

| STANDARD TOLERANCES |        |
|---------------------|--------|
| .X                  | ±0.03  |
| .XX                 | ±0.010 |
| .XXX                | ±0.005 |

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MW  
 SA3T-XX

↑  
 LABEL

|  |        |   |       |                    |             |
|--|--------|---|-------|--------------------|-------------|
| <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>15 dB Fixed Attenuator TNC Male To TNC Female Up To 3 GHz Rated To 1 Watt With Brass Tri-Metal Body |        | DWG NO<br>SA3T  |       | CAGE CODE<br>3FKR5 |             |
| CAD FILE   | 031616 | SHEET   | SCALE | N/A                | SIZE A 3045 |