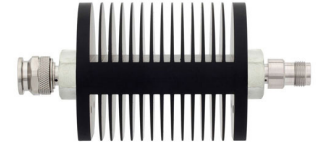


30 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.6 VSWR



## SA18TMTF25W-30

### Features

### Applications

### Description

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 varieties and ships them same day. The SA18TMTF25W-30 is a 30 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 25 Watts. The versatile coaxial package uses TNC male to TNC female connectors. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

### Electrical Specifications

| Description         | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range     | DC      |         | 18      | GHz   |
| Impedance           |         | 50      |         | Ohms  |
| Nominal Attenuation |         | 30      |         | dB    |
| VSWR                |         |         | 1.6:1   |       |
| Input Power, CW     |         |         | 25      | Watts |
| Input Power, Peak   |         |         | 500     | Watts |

### Specifications by Frequency

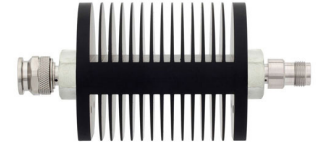
| Description               | F1      | F2        | F3         | F4 | F5 | Units |
|---------------------------|---------|-----------|------------|----|----|-------|
| Frequency Range           | DC to 6 | 6 to 12.4 | 12.4 to 18 |    |    | GHz   |
| VSWR, Max                 | 1.3:1   | 1.45:1    | 1.6:1      |    |    |       |
| Attenuation Accuracy, Typ | 0.75    | 1         | 1.5        |    |    | dB    |
| Input Power, CW           | 25      |           |            |    |    | Watts |

### Mechanical Specifications

#### Size

|                           |                                  |
|---------------------------|----------------------------------|
| Length                    | 4.5 in [114.3 mm]                |
| Width/Diameter            | 2.41 in [61.21 mm]               |
| Height                    | 0 in [0 mm]                      |
| Weight                    | 0.7945 lbs [360.38 g]            |
| Body Material and Plating | Black Anodized Aluminum Heatsink |

30 dB Fixed Attenuator TNC Male (Plug) to  
TNC Female (Jack) Up to 18 GHz Rated to  
25 Watts, Heatsink Body, 1.6 VSWR



## SA18TMTF25W-30

| Configuration                        |                             |                             |
|--------------------------------------|-----------------------------|-----------------------------|
| Design                               | Fixed, Bidirectional        |                             |
| Connectors                           |                             |                             |
| Description                          | Connector 1                 | Connector 2                 |
| Type                                 | TNC Male                    | TNC Female                  |
| Contact Material and Plating         | Brass, Gold                 | Beryllium Copper, Gold      |
| Contact Plating Specification        | Gold                        |                             |
| Outer Conductor Material and Plating |                             | Stainless Steel, Passivated |
| Hex Size                             | 11/16 In.                   | 11/16 In.                   |
| Body Material and Plating            | Stainless Steel, Passivated | Stainless Steel, Passivated |
| Body Plating Specification           | Passivated                  |                             |

### Environmental Specifications

|                    |                   |
|--------------------|-------------------|
| <b>Temperature</b> |                   |
| Operating Range    | -55 to +125 deg C |

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

### Plotted and Other Data

Notes:

### Typical Performance Data

30 dB Fixed Attenuator TNC Male (Plug) to TNC Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.6 VSWR 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: [30 dB Fixed Attenuator TNC Male \(Plug\) to TNC Female \(Jack\) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.6 VSWR SA18TMTF25W-30](#)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-tnc-male-tnc-female-25-watts-sa18tmtf25w-30-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.