

## 10 dB Fixed Attenuator DC to 12 GHz, TNC Male to TNC Female Brass Body Rated Up to 2 Watt

### SMAT7469-10



#### Features

- DC to 12 GHz Frequency Range
- TNC Connectorized Design
- Attenuation 10 dB  $\pm$ 1 dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.35:1

#### Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- WIFI 6E
- 5G Cellular bands

#### Description

ShowMeCables carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match 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 ShowMeCables carries one of the largest in-stock varieties and ships them same day. The 10 dB Fixed Attenuator SMAT7469-10 is rated to and operates from DC to 12 GHz. The versatile coaxial package uses TNC female to TNC male connectors.

#### Electrical Specifications

| Description         | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|-------|
| Frequency Range     | DC      |         | 12      | GHz   |
| Impedance           |         | 50      |         | Ohms  |
| Nominal Attenuation |         | 10      |         | dB    |
| VSWR                |         |         | 1.35:1  |       |
| Input Power, CW     |         |         | 2       | Watts |

#### Specifications by Frequency

| Description               | F1      | F2     | F3      | F4       | F5 | Units |
|---------------------------|---------|--------|---------|----------|----|-------|
| Frequency Range           | DC to 2 | 2 to 5 | 5 to 10 | 10 to 12 |    | GHz   |
| VSWR, Max                 | 1.15:1  | 1.25:1 | 1.35:1  | 1.35:1   |    |       |
| Attenuation Accuracy, Typ | 0.2     | 0.3    | 0.5     | 1        |    | dB    |

#### Mechanical Specifications

##### Size

|                           |                    |
|---------------------------|--------------------|
| Length                    | 2.09 in [53.09 mm] |
| Width/Diameter            | 0.63 in [16 mm]    |
| Height                    | 0.63 in [16 mm]    |
| Weight                    | 0.09 lbs [40.82 g] |
| Body Material and Plating | Brass, Tri-Metal   |

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#### Configuration

Design

Fixed, Bi-Directional

Package Style

Conectorized

#### Connectors

| Description                  | Connector 1           | Connector 2           |
|------------------------------|-----------------------|-----------------------|
| Type                         | TNC Female            | TNC Male              |
| Contact Material and Plating | Phosphor Bronze, Gold | Phosphor Bronze, Gold |
| Dielectric Type              | Teflon                | Teflon                |
| Body Material and Plating    | Brass, Tri-Metal      | Brass, Tri-Metal      |

#### Environmental Specifications

Temperature

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

**FPO** Show Me Cables specializes in protection of highly sensitive, low voltage equipment through its patented, non-degrading silicon diode technology and custom filters. Our power quality expertise translates into a diverse product offering including AC, DC, and signal applications as well as integrated cabinets, power distribution panels and EMP hardened devices.

**FPO** Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10 dB Fixed Attenuator DC to 12 GHz, TNC Male to TNC Female Brass Body Rated Up to 2 Watt SMAT7469-10](#)

**URL:** <https://www.showmecables.com/showmecables-20db-50ohm-fixed-attenuator-tnc-plug-to-tnc-jack-3ghz-rated-2-watt-p.aspx>

**FPO** 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 impliment improvements. Show Me Cables reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Show Me Cables does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Show Me Cables does not assume liability arising out of the use of any part or document.

SMAT7469-10 CAD Drawing
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