

# Fixed Coaxial Attenuators Model 41, Medium Power, SMA Connectors

**RoHS**

**dc to 18.0 GHz  
10 Watts**

*Bi-directional Design*

## Features

- **Compact Construction** - Lowest size/power ratio.
- **Quality Connectors with special high temperature support beads.**
- **Designed to meet environmental requirements of MIL-DTL-3933.**

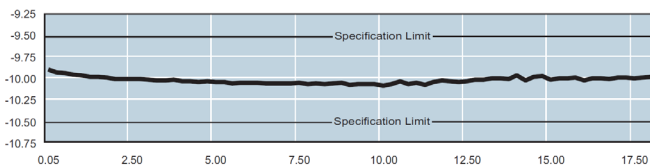
## Specifications

**Nominal Impedance:** 50 Ω

**Frequency Range:** dc to 18.0 GHz

### Maximum Deviation Over Frequency:

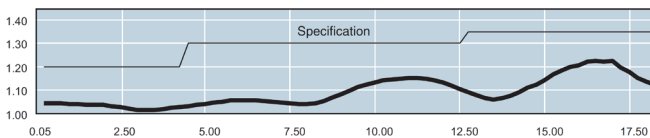
Nominal ATTN (dB)	Deviation (dB)
1, 2	± 0.50
3, 6	± 0.30
10	± 0.50
20	± 0.70
30	± 1.00



*Typical Attenuation Accuracy*

### Maximum SWR:

Frequency (GHz)	SWR
dc - 8	1.20
8 - 12.4	1.30
12.4 - 18	1.35



*Typical SWR of a 41-10*

**Power Rating (mounted horizontally):** 10 watts

average (bi-directional) to 25°C ambient temperature, derated linearly to 1 Watt @ 125°C. 1 kilowatt peak (5 μsec pulse width; 0.5% duty cycle).



**Power Coefficient:** <0.0015 dB/dB/watt

**Temperature Coefficient:** <0.0004 dB/dB/°C

**Temperature Range:** -55 °C to 125 °C

**Test Date:** Swept data plots of attd SWR from 50 MHz to 18 GHz supplied.

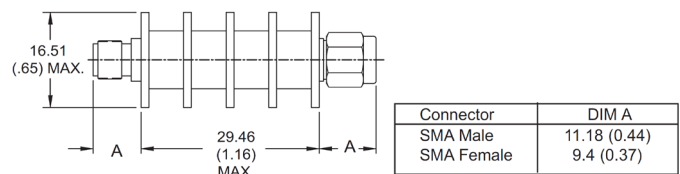
**Connectors:** SMA (Male/Female) connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

Connector Options	Type/Description
1	SMA, Female
2	SMA, Male

**Construction:** Black, finned aluminum body, gold plated beryllium copper contacts.

**Weight:** 28 g (1 oz.) maximum

### Physical Dimensions:



**NOTE:** All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

# Fixed Coaxial Attenuators Model 41, Medium Power, SMA Connectors

*Bi-directional Design*

**dc to 18.0 GHz  
10 Watts**

## Model Number Description:

Example: **41 - XX - XX\***

Basic Model Number	Attenuation Value (dB)	Connector Options -11 Female/Female -12 Female/Male -22 Male/Male
-----------------------	---------------------------	--

\* Unit is bi-directional and full power may be applied to either connector.