

# Fixed Coaxial Attenuators



## Model 41 Medium Power Fixed Coaxial Attenuator

dc to 18.0 GHz  
10 Watts

### Bi-directional Design



### Features

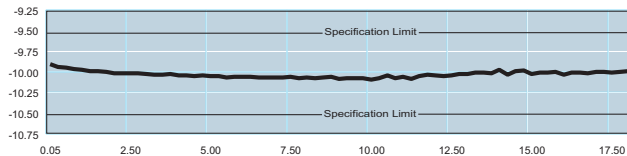
- /// Compact Construction - Lowest size/power ratio.
- /// Quality Connectors with special high temperature support beads.
- /// Designed to meet environmental requirements of MIL-A-3933.

### Specifications

NOMINAL IMPEDANCE: 50 Ω

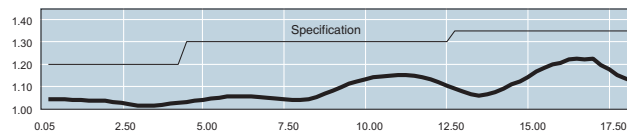
FREQUENCY RANGE: dc to 18.0 GHz

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 DATA:** Insertion loss test data supplied at 0.05, 4.0, 8.0, 12.0, and 18.0 GHz. Other test data can be provided at additional cost.

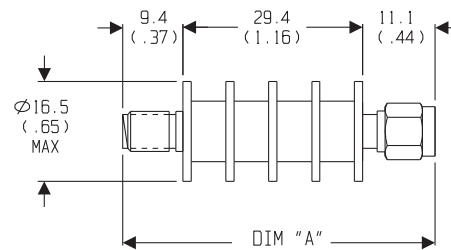
**CONNECTORS:** SMA (Male/Female) connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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:**

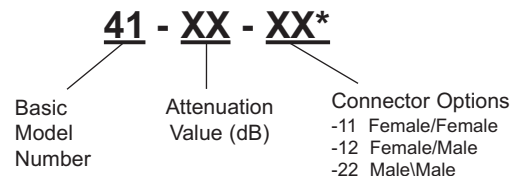


Model No.	DIM A
41-XX-12	50.0 (1.97)
41-XX-11	48.2 (1.90)
41-XX-22	51.6 (2.03)

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

### MODEL NUMBER DESCRIPTION:

Example:



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