

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.**

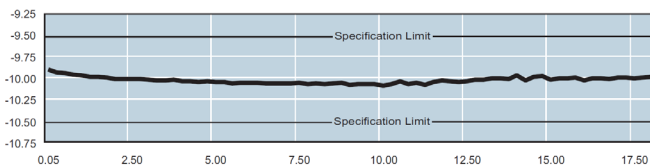
Specifications

Nominal Impedance: 50 Ω

Frequency Range: dc to 18.0 GHz

Maximum Deviation Over Frequency:

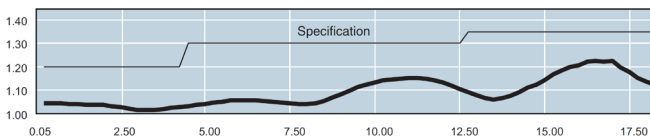
Nominal ATTN (dB)	Deviation (dB)
1, 2	± 0.50
3, 6	± 0.30
10	± 0.50
20	± 0.70
30	± 1.00



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 atted SWR from 50 MHz to 18 GHz supplied.

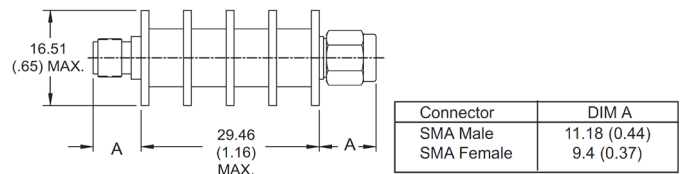
Connectors: SMA (Male/Female) connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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.

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Model Number Description:

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

Basic Model Number	Attenuation Value (dB)	Connector Options -11 Female/Female -12 Female/Male -22 Male/Male
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* Unit is bi-directional and full power may be applied to either connector.