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## Test & Measurement

- > sales
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## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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Product Lifecycle Management System

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## Model 41 Medium Power Fixed Coaxial Attenuator

dc to 18.0 GHz  
10 Watts

*Bi-directional Design*



### Features

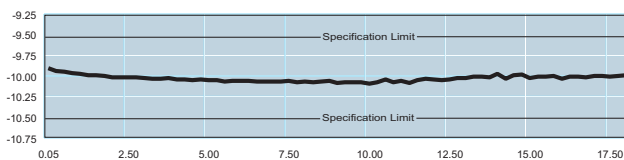
- /// **Compact Construction** - Lowest size/power ratio.
- /// **Quality Connectors with special high temperature support beads.**
- /// **Designed to meet environmental requirements of MIL-DTL-3933.**

### Specifications

**NOMINAL IMPEDANCE:** 50  $\Omega$

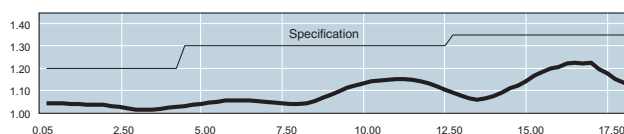
**FREQUENCY RANGE:** dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
1, 2	$\pm 0.50$
3, 6	$\pm 0.30$
10	$\pm 0.50$
20	$\pm 0.70$
30	$\pm 1.00$



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  $\mu$ sec 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.

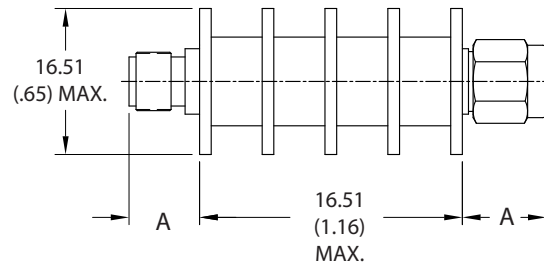
**CONNECTORS:** SMA (Male/Female) connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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:**



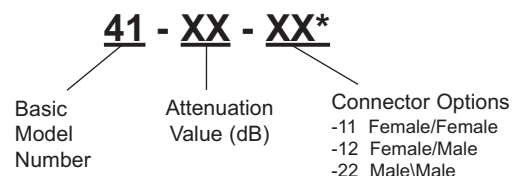
Connector	DIM A
SMA Male	11.18 (0.44)
SMA Female	9.4 (0.37)

NOTE:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

**MODEL NUMBER DESCRIPTION:**

Example:



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

