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## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## 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



### Disclaimer:

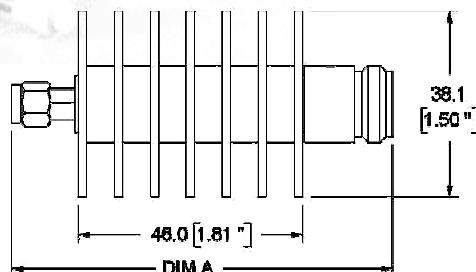
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# Fixed Coaxial Attenuator High Power - High Frequency

## MODEL WA46

DC – 18.0 GHz  
Bidirectional

25 WATTS



### Features

Designed to meet environmental requirements of MIL-DTL-3933. Low Intermodulation option available on 10, 20, 30, and 40 dB.

### Specifications

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC - 18.0 GHz.

**Nominal dB Values:** 3 - 40 dB.

**Power Sensitivity:** < 0.0006 dB/dB/W;  
Bidirectional in power.

**Power Rating:** 25W CW / 1kw peak. Maximum rated average power to 25°C ambient temperature, derated linearly to 2.5 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 1.25% duty cycle).

**Calibration:** Insertion Loss and VSWR performed across frequency range. Calibration test data available at additional cost.

#### Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB		
	WA46	WA46-LIM	
	DC – 18.0 GHz	DC – 8.0 GHz	8.0 – 18.0 GHz
3, 6	0.50	--	--
10	0.50	0.5	+1.0/-0.0
20	0.75	0.5	+1.0/-0.0
30, 40	1.00	0.5	+1.0/-0.0

Note: Dimensions are given in mm (inches) and are maximum unless otherwise specified.

**Connectors:** Type N or SMA stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-3933 environmental specification. High power input is unidirectional: Input connector optional; Female if not specified.

\* Add -LIM after connector option for Low Intermodulation option.

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

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

**Construction:** Black finned aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper female contacts, stainless steel male contacts.

#### Maximum VSWR:

Frequency (GHz)	VSWR
DC – 8.0	1.20
8.0 – 12.4	1.25
12.4 – 18.0	1.35

#### Weight:

Type N 0.11 kg/ 4 oz.  
SMA 0.08 kg/ 2.7 oz.

#### Physical Dimensions:

##### Length:

Connector	Dimension A
Type N	83.8 (3.3)
SMA	73.7 (2.9)

**Diameter:** 38.1 (1.5).



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