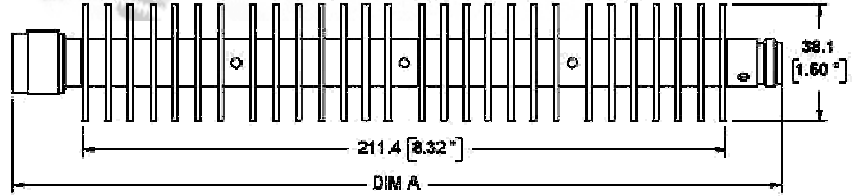


Fixed Coaxial Attenuator High Power - High Frequency

MODEL WA48

DC – 18.0 GHz

100 WATTS



Features

Designed to meet MIL-DTL-3933 environmental specification. Low Intermodulation option available.

Specifications

Nominal Impedance: 50 ohms.

Frequency Range: DC -18.0 GHz.

Nominal dB Values: 10 - 40 dB.

Power Sensitivity: < 0.00015 dB/dB/W;
Unidirectional in power.

Power Rating: 100 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 10 watts at 125°C. 1 kilowatt peak (5 µsec pulse width; 5% 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		
	WA48	WA48-LIM	
	DC – 18.0 GHz	DC-8.0 GHz	8.0–18.0 GHz
10	1.25	1.00	+3.0/-0.0
20	0.75	1.00	+3.0/-0.0
30, 40	1.00	1.00	+3.0/-0.0

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

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.

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

* Add -LIM for Low Intermodulation option after connector option. Example: WA48-dB-XX-LIM

Maximum VSWR:

Frequency (GHz)	VSWR 10 dB	VSWR 20,30,40 dB	WA48-LIM
DC – 8.0	1.40	1.25	1.40
8.0 – 12.4	1.40	1.35	1.45
12.4 – 18.0	1.55	1.45	1.45

Weight:

Type N 0.36 kg / 13 oz.
SMA 0.28 kg / 10 oz.

Physical Dimensions:

Length:

Connector	Dimension A
Type N	256.6 (10.1)
SMA	246.4 (9.7)

Diameter: 38.1 (1.5)



WEINSCHEL ASSOCIATES

TEL: 877.948.8342 / 301.963.4630 ♦ Fax: 301.963.8640

WEB: <http://www.WeinschelAssociates.com>

EMAIL: sales@WeinschelAssociates.com

45

Specification
Subject to change
without notice