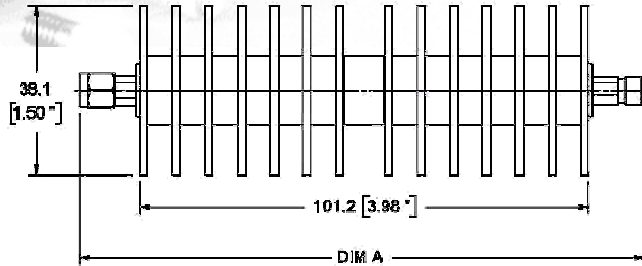


Fixed Coaxial Attenuator High Power - High Frequency

MODEL WA47

DC – 18.0 GHz
Bidirectional

50 WATTS



Features

Designed to meet MIL-DTL-3933 environmental specification. Low Intermodulation option in 10, 20, 30, and 40dB models.

Specifications

Nominal Impedance: 50 ohms.

Frequency Range: DC -18.0 GHz.

Nominal dB Values: 6 - 40 dB.

Power Sensitivity: < 0.0003 dB/dB/W;
Bidirectional in power.

Power Rating: 50W CW/ 1 KW peak to 25°C ambient temperature, derated linearly to 10 watts at 125°C, 1 kilowatt peak (5 µsec pulse width; 5% duty cycle).

Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB		
	WA47	WA47-LIM	
	DC – 18.0 GHz	DC-8 GHz	8–18 GHz
6	0.75	--	--
10	0.50	0.75	+1.5/-0.5
20	0.75	0.75	+1.5/0.5
30, 40	1.00	0.75	+1.5/-0.5

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

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 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: WA47-dB-XX-LIM

Maximum VSWR:

Frequency (GHz)	VSWR 6 dB	VSWR 10, 20, 30, 40 dB
DC – 8.0	1.25	1.20
8.0 – 12.4	1.35	1.25
12.4 – 18.0	1.45	1.35

Weight:

Type N 0.21 kg / 7.5 oz.
SMA 0.17 kg / 6 oz.

Physical Dimensions:

Length:

Connector	Dimension A
Type N	119.4 (4.7)
SMA	109.2 (4.3)

Diameter: 38.1 (1.5)



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