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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.

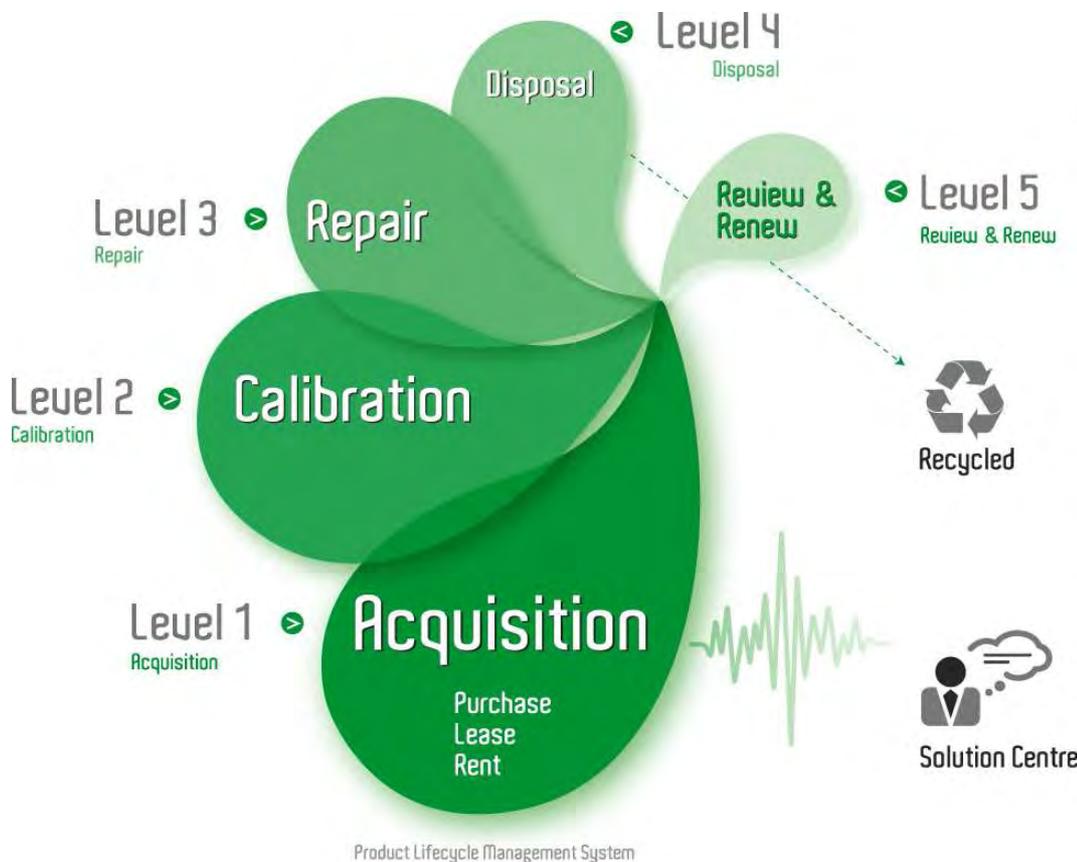
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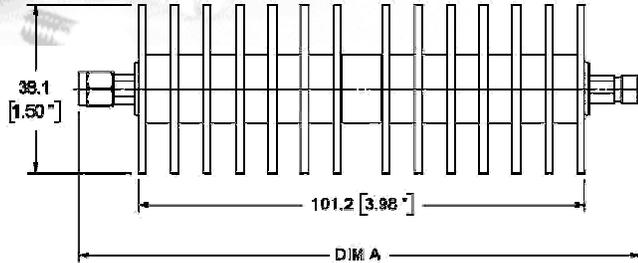


Fixed Coaxial Attenuator High Power - High Frequency

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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