

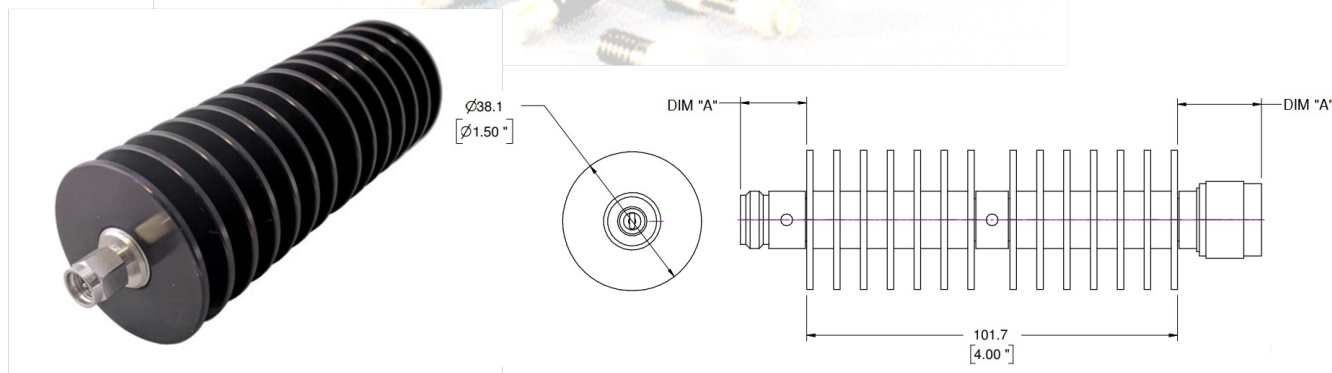
Fixed Coaxial Attenuator

WA47

WA47/12: DC – 12.4 GHz

WA47: DC – 18 GHz

50 WATTS



Features

Type N, SMA, or TNC 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.

Specifications

Nominal Impedance: 50 ohms.

Frequency Range: WA47/12: DC - 12.4 GHz.
WA47: DC - 18 GHz.

Nominal dB Values: 6 - 40 dB

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

Power Rating: 50 W maximum average rated power to 25°C ambient temperature, de-rated linearly to 5 W at 125°C. 1 kW peak power (5 µsec pulse width, 2.5% duty cycle).

Temperature Range: -55°C to +125°C.

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

Construction: Black aluminum alloy body with passivated stainless steel connectors. Gold plated beryllium copper or stainless steel contacts. RoHS Compliant.

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	
	WA47/12	WA47
6 - 9	0.75	0.75
10	0.5	0.5
11 - 20	0.75	0.75
21 - 40	1.0	1.0

Maximum VSWR:

Frequency (GHz)	VSWR			
	WA47/12 6 dB	WA47/12 10-40 dB	WA47 6 dB	WA47 10-40 dB
DC - 8.0	1.25	1.2	1.25	1.2
8.0 - 12.4	1.35	1.25	1.35	1.25
12.4 - 18	N/A	N/A	1.45	1.35

Dimensions:

Connector Type (- code)	Length Dimension 'A'
	SMA F -01
SMA M -02	10.9 (.43)
N-Type F -03	14.9 (.59)
N-Type M -04	22.7 (.89)
TNC F -05	14.4 (.57)
TNC M -06	17.7 (.70)

Weight: 0.21 (7.4)
Diameter: 38.1 (1.5)

Note: Dimensions are given in mm (in), or kg (oz). Weight figure is nominal, with our standard connector configuration. Additional connector options may be available.

Low Intermodulation Option: Add -LIM after connector option to specify low intermodulation.