

Fixed Coaxial Attenuator

WA47-LIM

WA47: DC – 18.0 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: DC - 18.0 GHz.

Nominal dB Values: 3, 6, 10, 20, 30 and 40 dB Standard. Custom dB values available upon request.

Power Coefficient: < 0.0003 dB/dB/W;
Unidirectional in power (3 and 6 dB units Bidirectional)

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. Test data available at additional cost.

Passive Intermodulation Levels:

Attenuation (dB)	3rd Order IM Magnitude
	IM3 Reflected dBc
3, 6, 10, 20, 30, 40	-115

Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB
	WA47
3, 6, 10, 20, 30, 40	1.5

Maximum VSWR:

Frequency (GHz)	VSWR
	WA47
DC - 8.0	1.25
8.0 - 12.4	1.35
12.4 - 18	1.45

Dimensions:

Connector Type (- code)	Length
	Dimension 'A'
SMA F -01	9.8 (.39)
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.