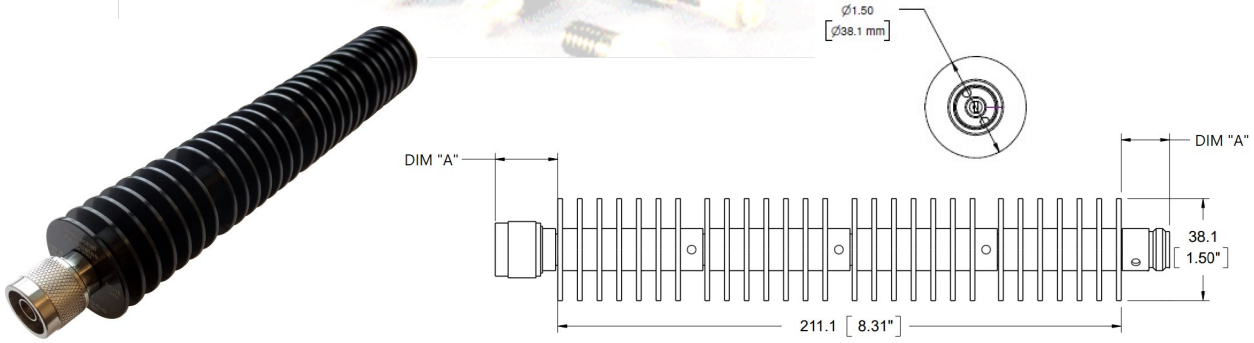
Fixed Coaxial Attenuator

WA48

WA48/12: DC – 12.4 GHz
WA48: DC – 18 GHz

100 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: WA48/12: DC - 12.4 GHz.
WA48: DC - 18 GHz.

Nominal dB Values: 10 - 40 dB

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

Power Rating: **100 W** maximum average rated power to 25°C ambient temperature, derated linearly to 10 W at 125°C. **1 kW** peak power (5 µsec pulse width, 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	
	WA48/12	WA48
10 - 19	1.25	1.25
20	0.75	0.75
21 - 40	1.0	1.0

Maximum VSWR:

Frequency (GHz)	VSWR			
	WA48/12 10 dB	WA48/12 20-40 dB	WA48 10 dB	WA48 20-40 dB
DC - 8.0	1.4	1.25	1.4	1.25
8.0 - 12.4	1.4	1.35	1.4	1.35
12.4 - 18	N/A	N/A	1.55	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.

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

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