

Fixed Coaxial Attenuator MODEL WA1W & WA2W

DC – 6.0 GHz
 DC – 12.4 GHz
 DC – 18.0 GHz

2 WATTS

Features

Type N 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: WA1W/6: DC - 6.0 GHz.
 WA1W/12: DC - 12.4 GHz.
 WA2W: DC - 18.0 GHz.

Nominal dB Values: 1 - 60 dB.

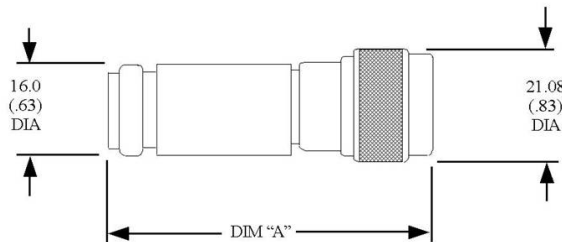
Power Sensitivity: < 0.005 dB/dB/W Bidirectional in power.

Power Rating: 2 watts average. Maximum rated average power to 25°C ambient temperature, derated linearly to 0.5 watts @ 105 C. 250 watts peak (5 µsec pulse width; 0.4% duty cycle).

Temperature Range: -55°C to +125°C.

Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB		
	WA1W/6	WA1W/12	WA2W/18
1, 2	0.4	0.4	0.5
3-9	0.3	0.3	0.3
10, 20	0.5	0.5	0.5
30, 40	0.75	0.75	1.00
50	0.75	0.75	1.25
60	1.0	1.0	1.50



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

Construction: Passivated stainless steel body and connectors. Gold plated beryllium copper female contact, passivated stainless steel male contact..

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

Maximum VSWR:

Frequency (GHz)	VSWR		
	WA1W/6	WA1W/12	WA2W/18
DC - 4.0	1.15	1.15	1.15
4.0 - 8.0	1.20	1.20	1.20
8.0 - 12.4	N/A	1.25	1.25
12.4 - 18.0	N/A	N/A	1.40

Weight (All Models):

1-30 dB .07 kg/ 2.6 oz.
 31-60 dB .10 kg/ 3.6 oz.

Physical Dimensions:

Attenuation (dB)	Dim "A"
1 – 30	50.8 (2.00)
31-60	64.77 (2.55)

Note: Dimensions are given in mm (inches) and are maximum, unless otherwise specified



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