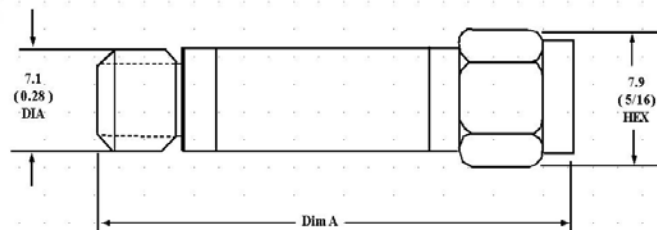


Fixed Coaxial Attenuator High Reliability

MODEL WA32

18.0 GHz

2 WATTS



Features

Type SMA; stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-C-39012. Designed to meet MIL-A-3933 environmental specification. Suitable for space & airborne applications.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: 0-18.0 GHz

Nominal dB Values: 1-20 dB

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

Power Rating: 2 watts average power to 25°C ambient temperature, derated linearly to 1.25 watts at 75°C and 0.5 Watts at +125° C; 500 watts peak (5 µsec pulse width; 0.2% duty cycle).

Temperature Range: -55°C to +125° C:

Standard Nominal Values and Deviations from Nominal:

dB	Accuracy ± dB
	WA32
0	0.3
0.5-6	0.3
7-12	0.5
20	0.7

Temperature Coefficient: < 0.0004 dB/dB x °C

Construction: Passivated stainless steel body and connectors. Gold plated beryllium copper contacts.

Test & Calibration: These units are screened and tested according to the following procedure:

Thermal Shock Test: 10 cycles, ½ hour each, -55° C to +125° C. Attenuation is taken before and after thermal shock.

Peak Power: 500 watts, 6000 cycles, 5µsec pulse width; 0.2% duty cycle at each end. There is an allowable change of 0.05 dB to 10 dB. 0.005 dB/dB to 20 dB. If necessary, the unit may be subjected to additional peak power test to stabilize the resistive element.

Final Test: Attenuation and VSWR are performed for final electrical test. Test data is available at additional cost.

Maximum VSWR:

GHz	VSWR
	WA32
DC-4.0	1.15
4.0-8.0	1.20
8.0-12.4	1.25
12.4-18.0	1.35

Weight (Both Models):

0-12 dB 3.9 gm/ 0.14 oz.
13-20 dB 4.3 gm/ 0.15 oz.

Physical Dimensions:

dB	Dim "A"
0 - 12	31.24 (1.23)
13 - 20	33.27 (1.31)

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



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Specification
Subject to
change without
notice