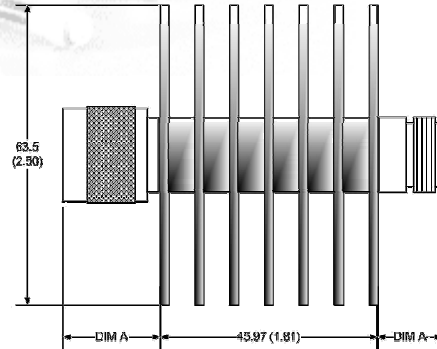


Fixed Coaxial Attenuator High Power - High Frequency

MODEL WA90

DC – 18.0 GHz
Bi-directional

50 WATTS



Features

Designed to meet MIL-DTL-3933 environmental specification. Compact construction to meet a wide range of design requirements.

Specifications

Nominal Impedance: 50 ohms.

Frequency Range: DC -18.0 GHz.

Nominal dB Values: 3 - 40 dB.

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

Power Rating: 50W CW/ 1 KW peak to 25°C ambient temperature, derated linearly to 5 watts at 125°C, 1 kilowatt peak (5 µsec pulse width; 2.5% duty cycle).

Standard Nominal Values and Deviations:

| Attenuation (dB) | Accuracy ± dB |
|------------------|---------------|
| | DC – 18.0 GHz |
| 3, 6, 10 | 0.50 |
| 20 | 0.75 |
| 30, 40 | 1.00 |

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

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

Temperature Range: -55°C to +125°C.

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

Connectors: Type N or SMA stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012.

Maximum VSWR:

| Frequency (GHz) | VSWR |
|-----------------|------|
| DC – 8.0 | 1.20 |
| 8.0 – 12.4 | 1.25 |
| 12.4 – 18.0 | 1.35 |

Weight:

Type N 0.18 kg/ 6.1 oz.
SMA 0.16 kg/ 5.7 oz.

Physical Dimensions:

Length:

| Connector | Length |
|-----------|-------------|
| Type N | 19.1 (0.75) |
| SMA | 15.3 (0.6) |

Diameter: 63.50 (2.50).

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



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Specification
Subject to change
without notice