

Fixed Coaxial Attenuators



Model 32 High Reliability Fixed Coaxial Attenuator

dc to 18.0 GHz
2 Watts

Suitable for Space & Airborne Applications



Features

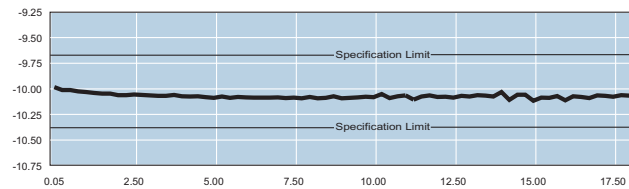
- /// Available in 0.5 dB increments from 0-20 dB.
- /// Rugged injection molded connectors.
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// 100% Subjected to Thermal Shock & Peak Power Tests.

Specifications

NOMINAL IMPEDANCE: 50 Ω

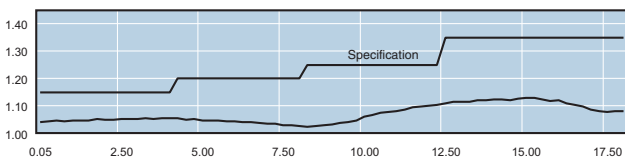
FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
0	+ 0.30
0.5 - 6	± 0.30
6.5 - 12	± 0.50
12.5 - 20	± 0.70



Typical Attenuation Accuracy of 32-10

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 4	1.15
4 - 8	1.20
8 - 12.4	1.25
12.4 - 18	1.35



Typical SWR of a 32-10

POWER RATING: 2 watts **average** to 25°C ambient temperature, derated linearly to 0.5 watts at 125°C. 500 watts **peak** (5 μsec pulse width; 0.2% duty cycle).

POWER COEFFICIENT: < 0.005 dB/dB/watts

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to +125°C

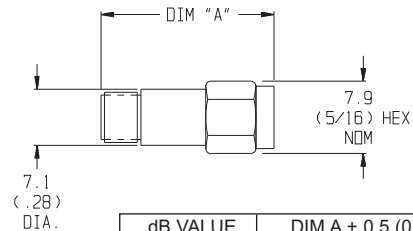
CONNECTORS: SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

CONSTRUCTION: Passivated stainless steel body and connectors; gold plated beryllium copper contacts. Each unit is sealed using low outgassing sealant.

WEIGHT:

dB VALUE	WEIGHT (Net)
0 - 12	3.9 g (0.14 oz)
12.5 - 20	4.3 g (0.15 oz)

PHYSICAL DIMENSIONS:



dB VALUE	DIM A ± 0.5 (0.02)
0-12	21.8 (0.86)
12.5-20	23.9 (0.94)

NOTE:

1. All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
2. Unit available with RoHS compliant materials, specify when ordering.

Screening

Units are screened by lot as follows:

Thermal Shock: 10 cycles, -55 C to +125 °C, with a minimum of 1/2 hour dwell time at each temperature extreme. Attenuation is measured before and after thermal shock.

Peak Power: 500 Watts, 5 μsec pulse width; 0.05% duty cycle for 3 minutes at each end. DC Attenuation is measured before and after peak power.

Attenuation and SWR are tested as final electrical test. Test data is available at additional cost.

MODEL NUMBER DESCRIPTION:

Example:

