Model 32
High Reliability Fixed Coaxial Attenuators

dc to 18.0 GHz
2 Watts

NEW

Suitable for Space & Airborne Applications

Features

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

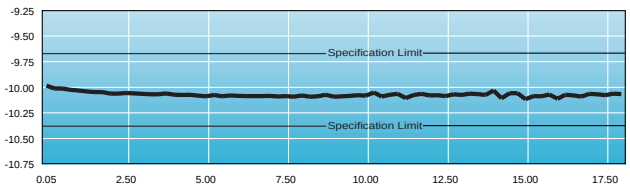
Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

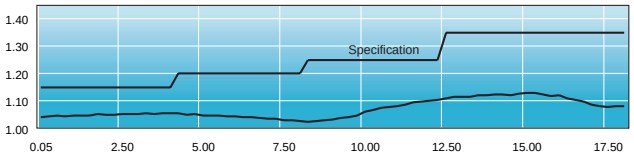
Nominal ATTN (dB)	Deviation (dB)
0.5 - 6	± 0.30
6.5 - 12	± 0.50
12.5 - 20	± 0.70



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

TESTING & CALIBRATION: Units are screened by lot as follows:

Thermal Shock: 10 cycles, -55 C to +125 °C, 1/2 hour each cycle. Attenuation is measured before and after thermal shock.

Peak Power: 500 Watts, 6000 cycles, 5 msec pulse width; 0.2% duty cycle at each end. Test attenuation before and after at DC, permissible change of 0.05 dB to 10 dB, 0.005 dB/dB to 20 dB, resubmit to peak power one time, if required, to stabilize resistive element.

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

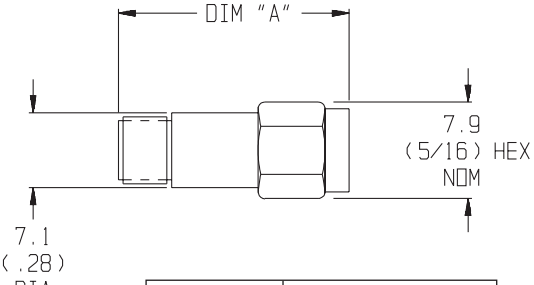
CONNECTORS: SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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

WEIGHT (Both Models):

dB VALUE	WEIGHT (Net)
0.5 - 12	3.9 g (0.14 oz)
12.5 - 20	4.3 g (0.15 oz)

PHYSICAL DIMENSIONS:

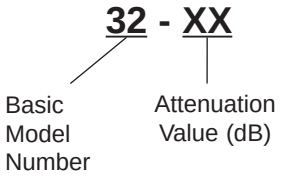


dB VALUE	DIM A ± 0.5 (0.02)
0.5-12	21.8 (0.86)
12.5-20	23.9 (0.94)

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

MODEL NUMBER DESCRIPTION:

Example:



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