

Fixed Coaxial Attenuators

Model 273 High Reliability, SMA Connectors

dc to 18.0 GHz
2 Watts



Designed to meet requirements of
MIL-DTL-3933, CLASS III/IV, N/S



Features

- /// Rugged injection molded connectors.
- /// Screened (Model 273S) and Non-screened (Model 273N) designs available.
- /// Available in 0-10 in 0.5 dB steps, 11- 20 in 1 dB steps & 25 - 40 in 5 dB steps.
- /// Test Data supplied at additional cost as follows:
Non-screened (N): Swept data plots of Attenuation and SWR across the frequency band.
Screened (S): Swept data plots of Attenuation and SWR across the frequency band. Film, Standard data package includes lot record performance showing pass/fail quantities for all tests and test reports as applicable.

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	dB
0 - 6.5	± 0.30
7 - 8.5	± 0.40
9 - 14	± 0.50
15 - 20	± 0.60
25 - 40	± 1.00

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 2	1.10
2 - 4	1.15
4 - 8	1.20
8 - 12.4	1.25
12.4 - 18	1.35

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

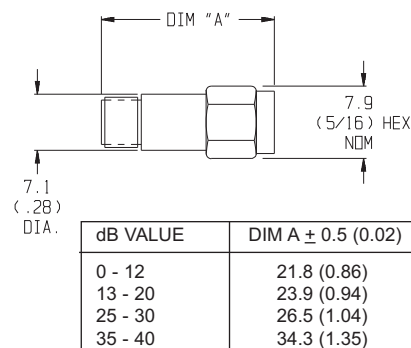
CONNECTORS: SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

CONSTRUCTION: Passivated stainless steel body and connectors; gold plated beryllium copper contacts.

WEIGHT:

dB VALUE	WEIGHT (Net)
0 - 12	3.9 g (0.14 oz)
13 - 20	4.3 g (0.15 oz)
25 - 30	6.5 g (0.23 oz)
35 - 40	12.8 g (0.45 oz)

PHYSICAL DIMENSIONS:



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

Screening

Units are screened as follows:

"N" versions:

- SWR
- Attenuation
- Peak Power

"S" versions:

- Thermal Shock
- Monitored Thermal Cycle (MTC)
- Attenuation w/Parts Assembly Verification (PAV)
- Conditioning
- Peak Power
- Attenuation
- SWR
- Radiographics

MODEL NUMBER DESCRIPTION:

Example:

