

Fixed Coaxial Attenuators

Model 1
Model 2
Precision N Connectors

dc to 12.4 GHz
dc to 18.0 GHz
5 Watts

RoHS



Features

- /// Rugged injection molded connectors.
- /// Designed to meet environmental requirements of MIL-DTL-3933.

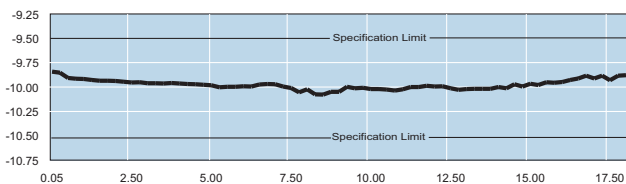
Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: Model 1: dc to 12.4 GHz
Model 2: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

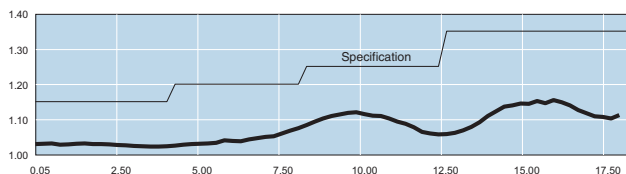
| Nominal ATTN (dB) | 1 | 2 |
|-------------------|--------|--------|
| 1-9 | ± 0.30 | ± 0.30 |
| 10, 20 | ± 0.30 | ± 0.50 |
| 30, 40 | ± 0.75 | ± 1.00 |
| 50 | ± 0.75 | ± 1.25 |
| 60 | ± 1.00 | ± 1.50 |



Typical Attenuation Performance of Model 2-10

MAXIMUM SWR:

| Frequency (GHz) | 1 | 2 |
|-----------------|------|------|
| dc - 4 | 1.15 | 1.15 |
| 4 - 8 | 1.20 | 1.20 |
| 8 - 12.4 | 1.25 | 1.25 |
| 12.4 - 18 | --- | 1.35 |



Typical SWR of Model 2-10

POWER RATING: 5 watts **average** @ 25°C ambient temperature, derated linearly to 0.5 watt @ 125°C. 1 kilowatt **peak** (5 μsec pulse width; 0.25% duty cycle)

POWER COEFFICIENT: <0.005 dB/dB/Watt

TEMPERATURE COEFFICIENT: < 0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to +125°C

TEST DATA: Swept data plots of attenuation and SWR from 50 MHz to 12.4 / 18 GHz is available at additional cost.

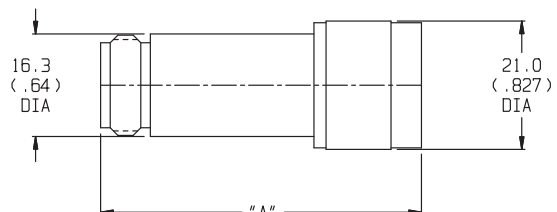
CONNECTORS: Precision Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

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

WEIGHT:

| dB VALUE | WEIGHT (Net) |
|----------------|---------------|
| 1 - 10, 20, 30 | 71 g (2.5 oz) |
| 40, 50, 60 | 79 g (2.8 oz) |

PHYSICAL DIMENSIONS:

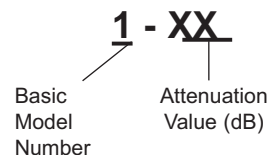


| dB VALUE | DIM A |
|--------------|-------------|
| 1-10, 20, 30 | 57.9 (2.28) |
| 40, 50, 60 | 68.1 (2.68) |

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

MODEL NUMBER DESCRIPTION:

Example:



ATTENUATOR SET (AS-6): Model 2 is also available in a Attenuator Set which includes four different attenuators (3, 6, 10, 20 dB). Refer to Attenuator Sets data sheet for more information.