

Fixed Coaxial Attenuators

Model 47 Medium Power, N or 3.5mm Connectors

dc to 18.0 GHz
 50 Watts



Features

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

Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

| Nominal ATTN (dB) | Deviation (dB) |
|-------------------|----------------|
| 3, 6 | ± 0.75 |
| 10, 20 | ± 0.75 |
| 30, 40 | ± 1.00 |

MAXIMUM SWR:

| Frequency (GHz) | 3, 6 dB | 10, 20, 30, 40 dB |
|-----------------|---------|-------------------|
| dc - 8 | 1.25 | 1.20 |
| 8 -12.4 | 1.35 | 1.25 |
| 12.4 - 18 | 1.45 | 1.35 |

POWER RATING (mounted horizontally): 50 watts average (unidirectional) to 25°C ambient temperature, derated linearly to 5 watts @ 125°C. Note: 3 dB model can handle 100 Watts average (unidirectional). 1 kilowatt peak (5 μsec pulse width; 2.5% duty cycle). Maximum power rating into output port is 10 Watts average.

POWER COEFFICIENT: <0.0003 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 18 GHz.

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

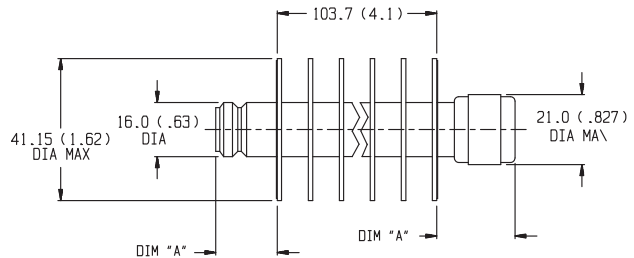
3.5mm Connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm and other 3.5mm connectors.

| Options | Description | Options | Description |
|---------|--------------|---------|---------------|
| 1 | 3.5mm Female | 3 | Type N Female |
| 2 | 3.5mm Male | 4 | Type N Male |

CONSTRUCTION: Black, finned aluminum body, stainless steel connectors with gold plated beryllium copper contacts.

WEIGHT: 175 g (6 oz.) maximum

PHYSICAL DIMENSIONS:



| Connector | DIM A | Connector | DIM A |
|-----------|-------------|--------------|-------------|
| N Male | 24.1 (0.95) | 3.5mm Female | 14.0 (0.55) |
| N Female | 19.0 (0.75) | 3.5mm Male | 13.2 (0.52) |

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

MODEL NUMBER DESCRIPTION:

Example:

