

# Fixed Coaxial Attenuators

## Model 48 High Power, N & 3.5mm Connectors

dc to 18.0 GHz  
 100 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)
6	± 2.00
10	± 2.00
20, 30, 40	± 1.00

MAXIMUM SWR:			
Frequency (GHz)	6 dB	10 dB	20, 30, 40 dB
dc - 8	1.30	1.40	1.25
8 - 12.4	1.45	1.40	1.35
12.4 - 18	1.60	1.55	1.45

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

**POWER COEFFICIENT:** <0.00015 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.

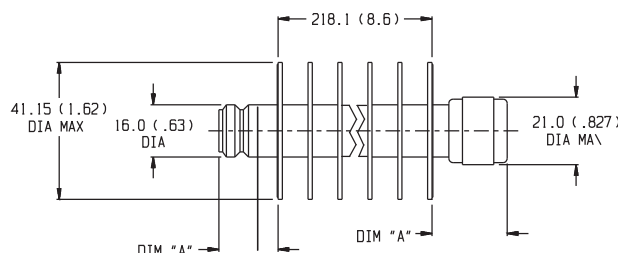
3.5mm (Male/Female) connectors - mate nondestructively with SMA per MIL-C-39012, 2.92mm and other 3.5mm connectors.

Connector Options	Type/Description
1	3.5mm, Female
2	3.5mm, Male
3	Type N, Female
4	Type N, Male

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

**WEIGHT:** 383 g (13.5 oz.) maximum

### PHYSICAL DIMENSIONS:



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

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

### MODEL NUMBER DESCRIPTION:

Example:

