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dc to 18.0 GHz
10 Watts
 RoHS

Fixed Coaxial Attenuators

Model 48, High Power, N & 3.5mm Connectors

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 Range (GHz)	6 dB	10dB	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 supplied.



Connectors: Type N connectors per MIL-STD-348

interface dimensions - mate nondestructively with MIL-C-39012 connectors.

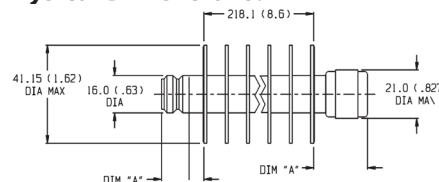
3.5mm (Male/Female) connectors - mate nondestructively with SMA per MIL C-39012, 2.92mm and other 3.5mm connectors.

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
3.5 mm Female	13.2 (0.52)
3.5 mm 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.

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Model Number Description:

Example: **48 - XX - XX**

Basic Model
Number

Attenuation
Value (dB)

Connector Options

1st digit is input side

2nd digit is output side