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Fixed Coaxial Attenuators

Model 276

dc to 18.0 GHz

High Reliability, N Connectors

25 Watts

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

Features

- **Rugged injection molded connectors.**
- **Screened (Model 276S) and Non-screened (Model 276N) designs available.**
- **Available in 3, 6, 10, 20 & 30 dB.**
- **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. Standard data package includes film, lot record performace 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)	dc-4 GHz	4-8 GHz	8-18 GHz
3, 6, 10, 20	± 0.30	± 0.60	± 1.00
30	± 0.60	± 0.75	± 1.00

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.15
4 - 8	1.20
8 -12	1.25
12 - 18	1.40

POWER RATING (mounted horizontally): 25 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C.

3, 6 dB: 1 kilowatt **peak** (5 µsec pulse width; 0.05% duty cycle), 10, 20 30 dB: 2 kilowatt **peak** (5 µsec pulse width; 0.05% duty cycle).

POWER COEFFICIENT: <0.0006 dB/dB/watt

TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C

TEMPERATURE RANGE: -55°C to 125°C

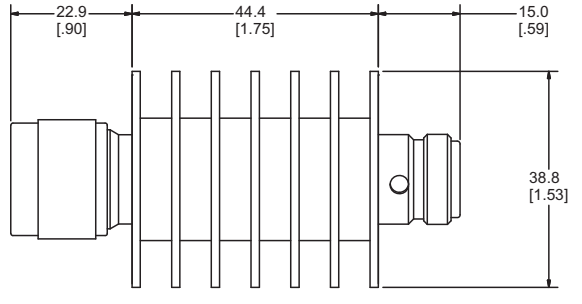
CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

Options	Description
3	Type N Female
4	Type N Male

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

WEIGHT: 110 g (4 oz.) maximum

PHYSICAL DIMENSIONS:



Connector	DIM A
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.

Screening

Units are screened as follows:

"N" versions:

SWR
Attenuation
Peak Power

"S" versions:

Thermal Shock
Monitored Thermal Cycle (MTC)
Attenuation
Conditioning
Peak Power
Attenuation
SWR
Radiographics

MODEL NUMBER DESCRIPTION:

Example:

276N - XX

- 276N: Basic Model Number
- N = Non-screened, S = Screened
- XX: Attenuation Value (dB)

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Revision Date: 08/02/2016