

**Model 44
Lab Standard Fixed Coaxial Attenuators**

**dc to 18.0 GHz
5 Watts**

Type N Connectors



Features

- /// **Precision Connectors** - Interface dimensions per MIL-STD-348.
- /// **Calibration** - A certificate of test supplied with each attenuator.
- /// **Hex Nut Connector** - Allows for use of a torque wrench to improve connector repeatability.
- /// **Designed to meet environmental requirements of MIL-A-3933.**

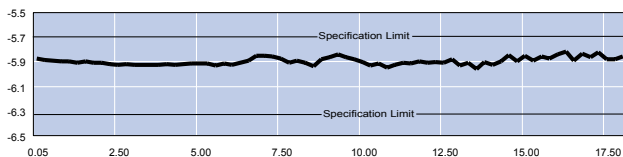
Specifications

NOMINAL IMPEDANCE: 50 Ω

FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

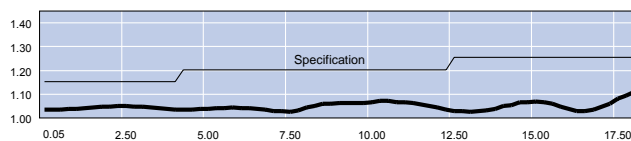
Nominal ATTN (dB)	Deviation (dB)
1 -9	± 0.30
10, 20	± 0.50
30, 40	± 1.00
50	± 1.25
60	± 1.50



Typical Attenuation Accuracy of a 44-6

MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 4	1.15
4 - 12.4	1.20
12.4 - 18	1.25



Typical SWR of a 44-6

POWER RATING: 5 watts **average** to 25°C ambient temperature, derated linearly to 4 watts @ 45°C, 3 watts @ 65°C, and 2 watts @ 85 °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: -50°C to +85°C

CALIBRATION: Insertion loss and SWR data supplied at 0.05, 4, 8, 12 and 18 GHz. Other test data available at additional cost.

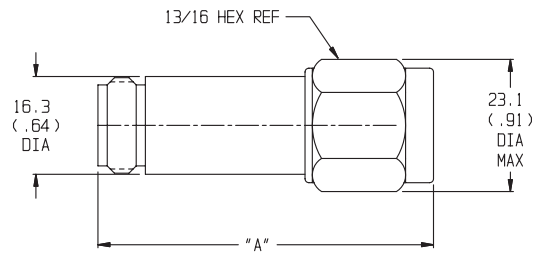
CONNECTORS: Precision Type N per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. Coupling Torque: 14 ± 1 in/lbs.

CONSTRUCTION: Brass Body (plated) and Stainless steel connectors; gold plated beryllium copper contacts.

WEIGHT:

dB VALUE	WEIGHT (Net)
1 - 10, 20, 30	100 g (3.5 oz)
40, 50, 60	140 g (4.5 oz)

PHYSICAL DIMENSIONS:

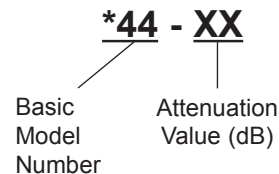


dB VALUE	DIM A
0-10, 20, 30	76.2 (3.0)
40, 50, 60	86.4 (3.4)

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

MODEL NUMBER DESCRIPTION:

Example:



*Add Prefix M for double male and F for double female connectors.

CALIBRATED ATTENUATOR SET (AS-18): Model 44 is also available in a Calibrated Attenuator Set which includes six different attenuators (1, 3, 6, 10, 20, 30 dB). Refer to Calibrated Attenuator Sets data sheet for more information.