

## Model 69A Medium Power Fixed Coaxial Attenuator

dc to 18.0 GHz  
5 Watts

SMA Connectors, Bi-directional Design



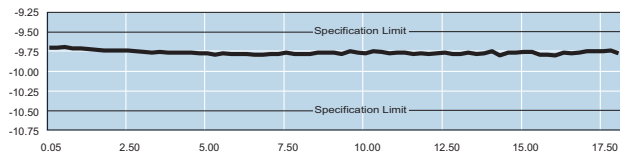
### Features

- /// Compact Construction - Lowest size/power ratio.
- /// Precision Injection Molded Connectors.
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// Flat Response & Low SWR.

### Specifications

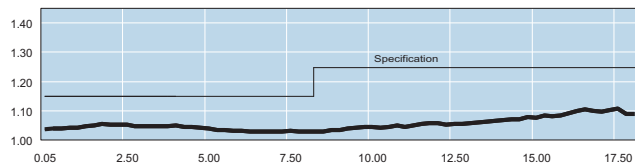
**NOMINAL IMPEDANCE:** 50 Ω  
**FREQUENCY RANGE:** dc to 18.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:	
Nominal ATTN (dB)	Deviation (dB)
1 - 6	± 0.30
7 - 10, 20, 30	± 0.50



Typical Attenuation Accuracy of a 69A-10

MAXIMUM SWR:	
Frequency (GHz)	SWR
dc - 8	1.15
8 - 18	1.25



Typical SWR of a 69A-10

**POWER RATING (mounted horizontally):** 5 watts average (bi-directional) to 25°C ambient temperature, derated linearly to 0.5 Watt @ 125°C. 500 watts peak (5 μsec pulse width; 0.5% duty cycle).

**POWER COEFFICIENT:** <0.003 dB/dB/watt

**TEMPERATURE COEFFICIENT:** <0.0004 dB/dB/°C

**TEMPERATURE RANGE:** -55 °C to 100 °C

**TEST DATA:** Insertion Loss and SWR Testing performed across frequency range. Test data available at additional cost.

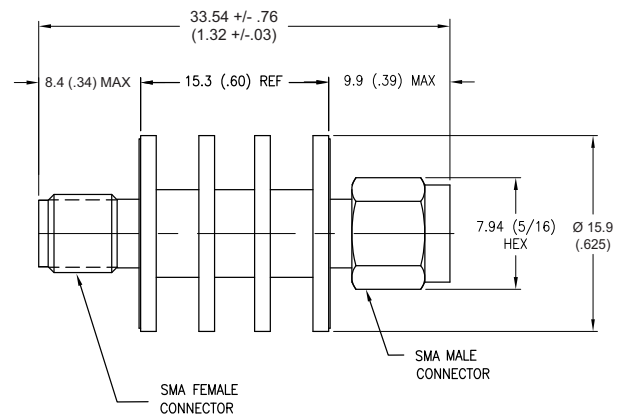
**CONNECTORS:** SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with SMK, 3.5mm, 2.92mm and SMA connectors per MIL-C-39012 .

Connector Options	Type/Description
1	SMA, Female
2	SMA, Male

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

**WEIGHT:** Net 10 g (0.35 oz) maximum

### PHYSICAL DIMENSIONS:



### NOTE:

- All dimensions are given in mm (inches) and are maximum, unless otherwise specified.
- Unit available with RoHS compliant materials, specify when ordering.

### MODEL NUMBER DESCRIPTION:

Example:

**69A - XX - 12\***

Basic Model Number

Attenuation Value (dB)

Connector Options  
-11 Female/Female  
-12 Male/Female  
-22 Male/Male

\*Unit is bi-directional and full power may be applied to either connector.