

## Model 69A

### Bi-directional Design, SMA Connectors

dc to 18.0 GHz

5 Watts



### Features

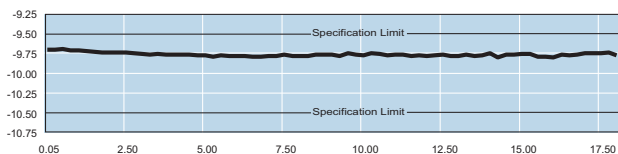
- /// Compact Construction - Lowest size/power ratio.
- /// Precision Injection Molded Connectors
- /// Designed to meet environmental requirements of MIL-DTL-3933.
- /// Flat Response & Low SWR.

### Specifications

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

#### MAXIMUM DEVIATION OVER FREQUENCY:

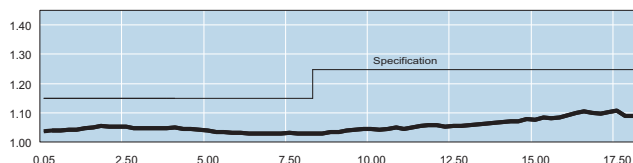
Nominal ATTN (dB)	Deviation (dB)
1 - 6	± 0.30
7 - 10, 20, 30	± 0.50



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 125 °C

**TEST DATA:** Swept data plots of attenuation and SWR from 50 MHz to 18 GHz is available at additional cost.

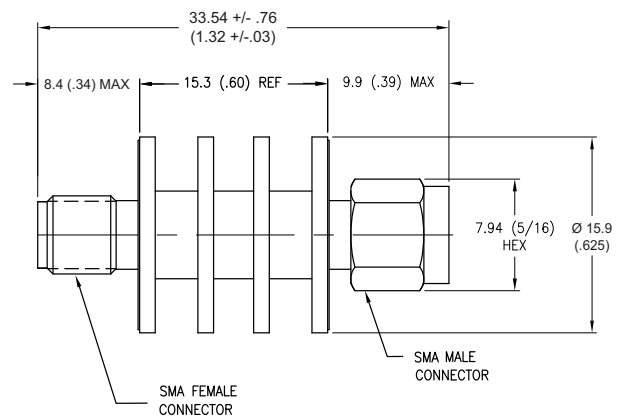
**CONNECTORS:** SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with SMK, 3.5mm, 2.92mm and SMA connectors per MIL-C-39012 .

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

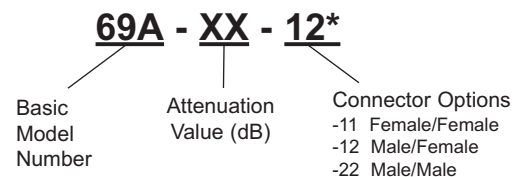
#### PHYSICAL DIMENSIONS:



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

#### MODEL NUMBER DESCRIPTION:

Example:



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