

Fixed Coaxial Attenuators Model 69A

Bi-Directional Design, SMA Connectors

Features

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

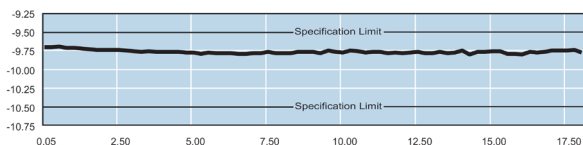
Specifications

Nominal Impedance: 50 Ω

Frequency Range: dc to 18.0 GHz

Maximum Deviation Over Frequency:

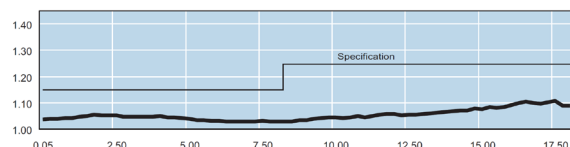
Nominal ATTN (dB)	Deviation (dB)
1 - 6	± 0.30
7 - 10, 20, 30	± 0.50



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 μ sec pulse width; 0.5% duty cycle).

Power Coefficient: <0.003 dB/dB/Watt

dc to 18.0 GHz
5 Watts



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.

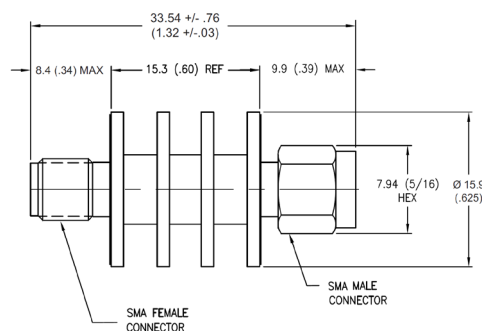
Connectors: SMA connectors per MIL-STD-348 interface dimensions - mate nondestructively with SMK, 3.5mm, 2.92mm and SMA connectors per MIL-C-39012 .

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: 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.