

## Model 54A Fixed Coaxial Attenuator

dc to 42.0 GHz  
2 Watts

### Ruggedized 2.92mm Connectors



### Features

- Designed to meet environmental requirements of MIL-DTL-3933.
- Ruggedized 2.92mm Connectors.

### Specifications

**NOMINAL IMPEDANCE:** 50  $\Omega$

**FREQUENCY RANGE:** dc to 42.0 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

Nominal ATTN (dB)	Deviation (dB)	
	dc-26.5	26.5-42
3, 6	$\pm 0.50$	$\pm 1.00$
10, 20	$\pm 1.00$	$\pm 1.00$
30	$\pm 2.00$	$\pm 2.00$

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 26.5	1.25
26.5 - 42	1.45

**POWER RATING:** 2 watts **average** to 25 °C ambient temperature, derated linearly to 0.1 watt at 85 °C. 200 watts **peak** (5  $\mu$ sec pulse width; 0.5 % duty cycle).

**POWER COEFFICIENT:** < 0.004 dB/dB/watts

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

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

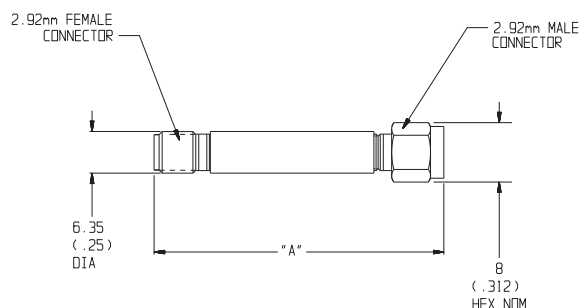
**TEST DATA:** Insertion Loss and SWR Testing performed across frequency range. Test data available at additional cost.

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

**CONSTRUCTION:** Stainless steel body and connectors; gold plated beryllium copper contacts.

**WEIGHT:** 13 g (0.46 oz.) maximum

#### PHYSICAL DIMENSIONS:



Model	DIM A
54A	39.9 (1.57)
F54A	37.9 (1.49)
M54A	42.0 (1.64)

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

#### MODEL NUMBER DESCRIPTION:

Example:

**\*54A - XX**

Basic  
Model  
Number

Attenuation  
Value (dB)

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