



## Model 54 Fixed Coaxial Attenuators

**dc to 40.0 GHz**  
**2 Watts**

### Ruggedized 2.92mm Connectors



### Features

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

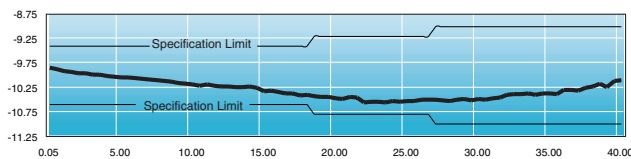
### Specifications

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

**FREQUENCY RANGE:** dc to 40.0 GHz

#### MAXIMUM DEVIATION OVER FREQUENCY:

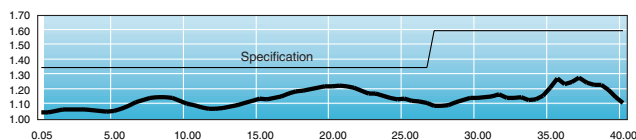
Nominal ATTN (dB)	Deviation (dB)		
	dc-18.0	18-26.5	26.5-40
1 - 4	$\pm 0.40$	$\pm 0.70$	$\pm 1.10$
6	$\pm 0.40$	$\pm 0.70$	$\pm 1.00$
7 - 10	$\pm 0.60$	$\pm 0.80$	$\pm 1.00$
20	$\pm 0.70$	$\pm 1.00$	$\pm 1.00$
30	$\pm 1.00$	$\pm 1.40$	$\pm 1.40$



Typical Attenuation Accuracy of a 54-10

#### MAXIMUM SWR:

Frequency (GHz)	SWR
dc - 26.5	1.35
26.5 - 40	1.60



Typical SWR of a 54-10

**POWER RATING:** 2 watts **average** to 25 °C ambient temperature, derated linearly to 0.1 watt at 125 °C. 200 watts **peak** (5  $\mu$ sec pulse width; 0.5 % duty cycle).

**POWER COEFFICIENT:** < 0.01 dB/dB/watts

**TEMPERATURE COEFFICIENT:** < 0.001 dB/dB/°C

**TEMPERATURE RANGE:** -55 °C to +125 °C

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

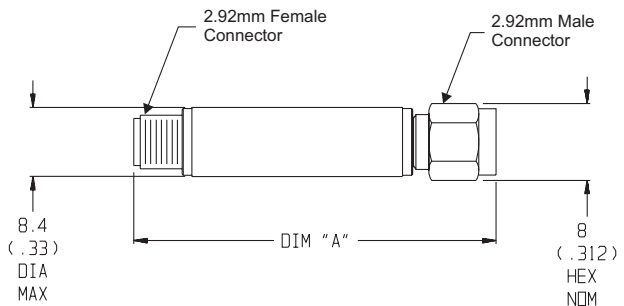
**CONNECTORS:** 2.92mm connectors - mate nondestructively with SMA connectors per MIL-C-39012, 3.5mm, K®, and other 2.92mm connectors.

K® is a registered Trademark of Anritsu Wiltron 2.92mm connector.

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

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

#### PHYSICAL DIMENSIONS:



Model	DIM A
54	44.4 (1.75)
F54	40.1 (1.58)
M54	48.5 (1.91)

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

#### MODEL NUMBER DESCRIPTION:

Example:

**\*54 - XX**  
 Basic Model Number      Attenuation Value (dB)

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