# **Fixed Coaxial Attenuators**



# Model 75A Bi-directional Design, SMK Connectors

# dc to 40.0 GHz 5 Watts



#### **Features**

- // Usable to 42 GHz
- // 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  $\Omega$ 

FREQUENCY RANGE: dc to 40.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:				
Nominal	Deviation (dB)			
ATTN (dB)	dc-26.5 GHz	26.5-40 GHz		
3, 6	<u>+</u> 0.50	<u>+</u> 1.00		
10, 20, 30	<u>+</u> 0.80	<u>+</u> 1.50		

MAXIMUM SWR:			
Frequency (GHz)	SWR		
dc - 26.5	1.25		
26.5 - 40	1.45		

**POWER RATING (mounted horizontally):** 5 watts **average (bi-directional)** to 25°C ambient temperature, derated linearly to 0.5 Watt @ 125°C. 200 watts **peak** (5  $\mu$ sec pulse width; 1.25% duty cycle).

POWER COEFFICIENT: <0.002 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 40 GHz.

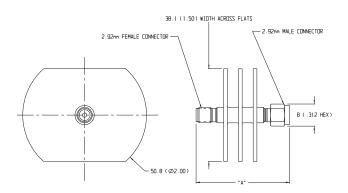
**CONNECTORS:** SMK (2.92mm) Male/Female connectors - mate nondestructively with SMA, 3.5mm and SMK (2.92mm) connectors.

Connector Options	Type/Description		
1	2.92mm, Female		
2	2.92mm, Male		

**CONSTRUCTION:** Black, finned aluminum body, gold plated beryllium copper contacts.

WEIGHT: 200 g (7.0 oz.) maximum

#### **PHYSICAL DIMENSIONS:**

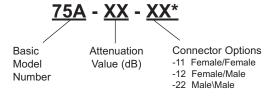


Dash No.	Connector Type	DIM A
11	2.92mm Female/Female	39.9 (1.56)
12	2.92mm Male/Female	44.1 (1.74)
22	2.92mm Male/Male	48.8 (1.92)

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

## MODEL NUMBER DESCRIPTION:

## Example:



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