

# Variable Attenuators



## Model 9012 Manual Step Attenuators

dc to 26.5 GHz  
2 Watts

### 2.92mm Connectors



### Features

- /// Choice of Attenuation Ranges and Step Sizes.
- /// Excellent Repeatability.
- /// Custom Configurations Available Upon Request.
- /// Highly Accurate Detent Stepping
- /// Ruggedized Connector - Injection molded to provide consistent interface dimensions.

### Specifications

**NOMINAL IMPEDANCE:** 50  $\Omega$   
**FREQUENCY RANGE:** Model 9012: dc to 26.5 GHz  
 Model 9015: dc to 40.0 GHz  
**INCREMENTAL ATTENUATION RANGE/STEPS:**  
 Model 9012-9: 0-9 dB in 1 dB steps  
 Model 9012-70: 0-70 dB in 10 dB steps

INCREMENTAL ATTENUATION ACCURACY:	
Model No.	Accuracy
9012-9, 9015-9	$\pm 0.5$ dB
9012-70	$\pm 1.0$ dB or 2%

MAXIMUM SWR:	
Frequency Range (GHz)	9012
dc - 18	1.40
18 - 26.5	1.50

MAXIMUM ZERO INSERTION LOSS ( $\pm$ dB):	
Frequency Range (GHz)	9012
dc - 18	1.00
18 - 26.5	1.50

**POWER RATING:** 2 watts **average** to 25°C ambient temperature, derated linearly to 1 watt @ 54°C. 200 watts **peak** (5  $\mu$ sec pulse width; 0.5% duty cycle)

**POWER COEFFICIENT:** < 0.005 dB/dB/watt

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

**TEMPERATURE RANGE:**

Operating: 0°C to + 54°C  
 Nonoperating: -54°C to + 54°C

**REPEATABILITY:**  $\pm 0.5$  dB to 60 dB

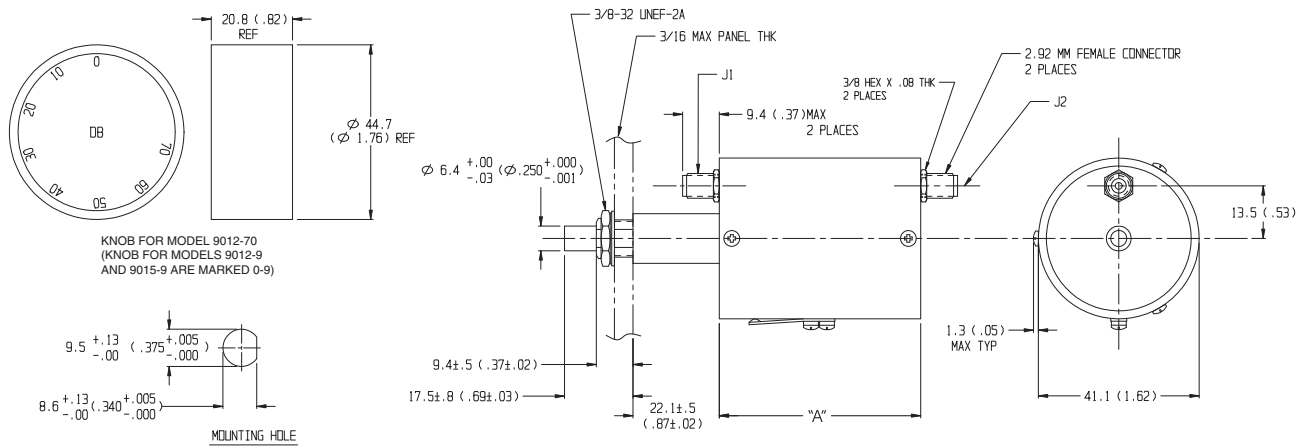
**TEST DATA:** Insertion loss and SWR data supplied at selected frequencies between 50 MHz and 26.5/40 GHz. Other test data can be provided at additional cost.

**CONNECTOR:** 2.92mm female connector - mate nondestructively with SMA connector per MIL-C-39012, SMK, 3.5mm, and other 2.92mm connector.

**CONSTRUCTION:** Stainless steel connector; gold plated beryllium copper contacts. Knob is included with each unit.

**WEIGHT:** Net 270 g (9.6 oz)

## PHYSICAL DIMENSIONS:



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

Model No.	DIM A
9012-9, 9012-70	51.56 (2.03)