

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 Ω

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	± 0.5 dB
9012-70	± 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 μ 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: ± 0.5 dB to 60 dB

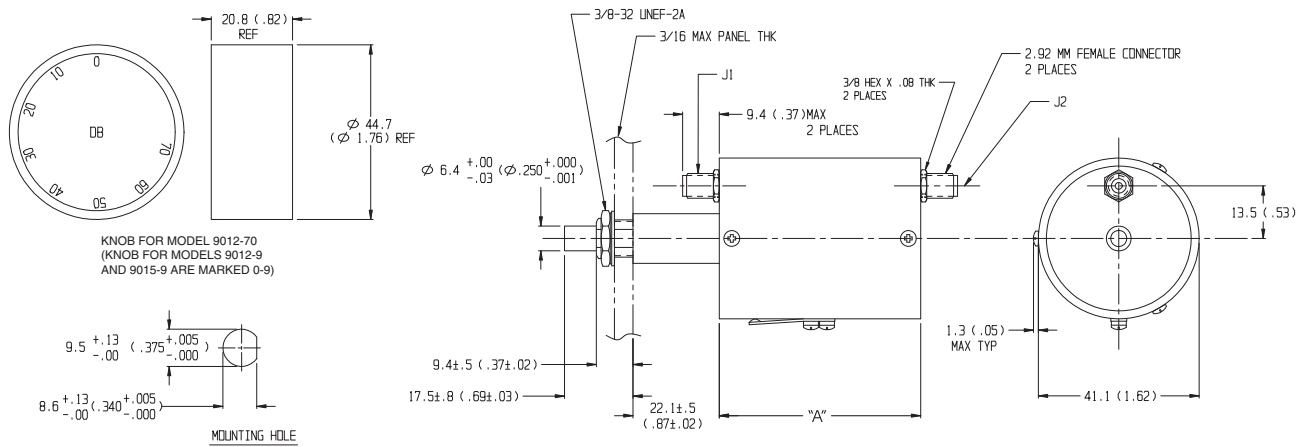
TEST DATA: Insertion loss and SWR data supplied at selected frequencies between 50 MHz and 26.5/40 GHz. Other test data can be provided at additional cost.

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)