

Variable Attenuators

Model 9012, Manual Step, SMK Connectors

dc to 18.0 GHz
18 to 22 GHz
2 Watts

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: dc to 22 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	± 0.5 dB
9012-70	± 1.0 dB or 2%

Maximum SWR - Model 9012-9:

Frequency Range (GHz)	9012
dc - 18	1.40

Maximum SWR - Model 9012-70:

Frequency Range (GHz)	9012
18 - 22	1.50

Maximum Zero Insertion Loss (+Db)- Model 9012-9:

Frequency Range (GHz)	9012
dc - 18	1.00

Maximum Zero Insertion Loss (+Db)-Model 9012-70:

Frequency Range (GHz)	9012
18 - 22	1.50



Power Rating: 2 watts average to 25°C ambient temperature, derated linearly to 1 watt @ 54°C. 200 watts peak (5 μsec 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.

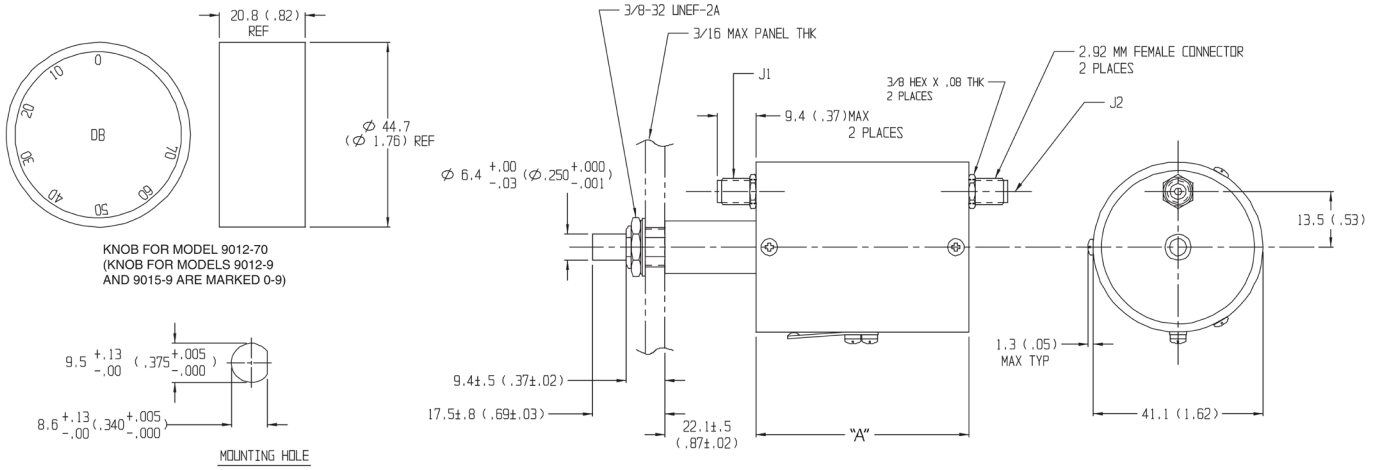
Connector: 2.92mm female connector - mate nondestructively with SMA connector per MIL-C-39012, SMK, 3.5mm, and other 2.92mm connector.

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

Weight: Net 270 g (9.6 oz)

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

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