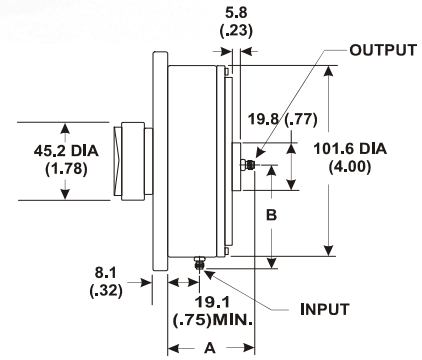
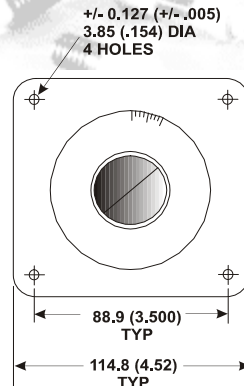


VARIABLE ATTENUATOR MODEL VA-02 & VA-04

DC – 2.0 GHz VA-02
DC – 4.0 GHz VA-04

5 WATTS



Features

Wide Attenuation Range: Variable Attenuation ranges up to 90 dB on 4 GHz Models and 115 dB on 2 GHz Models.

Low Residual Insertion Loss: 3 dB nominal on 30 dB Model and 5 dB nominal on wider range Models

Rugged Construction: Designed and tested to meet the environmental requirements of MIL-DTL-24215.

Long Life: 10,000 cycles standard, 50,000 optional.

Specifications

Nominal Impedance: 50 ohms

Frequency Range: VA-02 DC - 2.0 GHz
VA-04 DC - 4.0 GHz

Residual Insertion Loss: 5 dB, nominal (3 dB, nominal on 30 dB version)

Attenuation Range:

VA-02 30, 60, 90, 100, or 115 dB
VA-04 30, 60, or 90 dB

VSWR:

FREQ RANGE (GHz)	VSWR, Max
DC - 1.0	1.50
1.0 - 2.0	1.60
2.0 - 3.0	1.70
3.0 - 4.0	1.80

Accuracy:

± 0.25 dB or 0.4% at midband

Dial Calibration:

1 dB increments at midband

Resolution:

VA-02-30	3 to 33 dB	~120°
VA-02-60	5 to 65 dB	~180°
VA-02-100	5 to 105 dB	~270°
VA-02-115	5 to 120 dB	~285°
VA-04-30	3 to 33 dB	~120°
VA-04-60	5 to 65 dB	~180°
VA-04-90	5 to 95 dB	~240°

Power Rating: 5 watts average, 0.5 kW peak, to 40°C ambient temperature, de-rated linearly to 0 watts at 85°C.

Power Coefficient: <0.005 dB/dB/Watt

Phase Shift: 1° / dB x f (GHz) maximum

Temperature Range:

Operating: 0°C to +85°C
Non-Operating: -55°C to +125°C

Temperature Coefficient: <0.001 dB/dB/°C

Connectors: Type N and SMA connectors per MIL-STD-348A, interface dimensions per MIL-PRF-39012.

Connector Option	DIM "A" mm (in.)	DIM "B" mm (in.)
-34	66.0 (2.6)	68.1 (2.68)
-44	66.0 (2.6)	71.9 (2.83)
-33	61.0 (2.4)	68.1 (2.68)
-12	55.6 (2.19)	58.2 (2.29)
-22	55.6 (2.19)	61.5 (2.42)
-11	52.3 (2.06)	58.2 (2.29)



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Specification
Subject to change
without notice