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Test & Measurement

Complimentary Reference Material

- 🖻 sales
- rentals
- calibration
- 🖻 repair
- disposal

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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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
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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 VA-04

30, 60, or 90 dB

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

30, 60, 90, 100, or 115 dB

TYP	
114.8 (4.52) — TYP	

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)



VSWR:

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Specification Subject to change without notice

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