

Coaxial

SMA Fixed Attenuator

50Ω

2W

12dB

DC to 6000 MHz

VAT-12W2+

VAT-12W2



Maximum Ratings

Operating Temperature -45°C to 100°C

Storage Temperature -55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

Features

- wideband coverage, DC to 6000 MHz
- 2 watt rating
- rugged unibody construction
- off-the-shelf availability
- very low cost

Applications

- impedance matching
- signal level adjustment

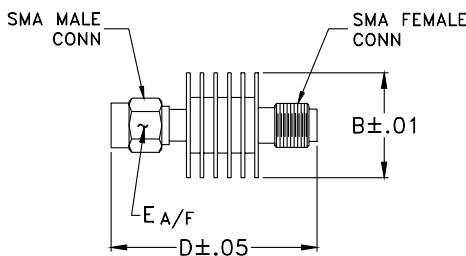
CASE STYLE: DC1066

| Connectors | Model | Price | Qty. |
|------------|-------------|-------------------|---------------------|
| SMA | VAT-12W2(+) | \$16.95 ea. (1-9) | \$13.45 ea. (10-49) |

+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Outline Drawing



Outline Dimensions (inch/mm)

| B | D | E | wt |
|-----|------|------|-------|
| .74 | 1.43 | .312 | grams |

18.80 36.32 7.92 11.4

| FREQ. RANGE (MHz) | ATTENUATION * (dB) Flatness ** | | | | | VSWR (:1) | | | | MAX. INPUT POWER (W) | |
|-------------------------|--------------------------------------|------|---------|---------|----------|--------------|---------|---------|------|-------------------------------|-----|
| | DC-3 GHz | | 3-5 GHz | 5-6 GHz | DC-6 GHz | DC-3 GHz | 3-5 GHz | 5-6 GHz | | | |
| | f _L -f _U | Nom. | Typ. | Typ. | Typ. | Typ. | Max. | Typ. | Typ. | | |
| DC-6000 | 12±0.3 | 0.10 | 0.15 | 0.10 | 0.30 | 1.20 | 1.40 | 1.50 | 1.80 | 1.70 | 2.0 |

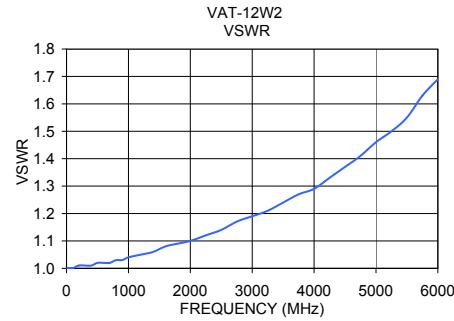
* Attenuation varies by 0.3 dB max. over temperature.

** Flatness= variation over band divided by 2.

Electrical Specifications

Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|--------------------|---------------------|--------------|
| 10.00 | 12.02 | 1.00 |
| 100.00 | 12.04 | 1.00 |
| 1000.00 | 12.10 | 1.04 |
| 2000.00 | 12.04 | 1.10 |
| 3000.00 | 11.94 | 1.19 |
| 4000.00 | 11.80 | 1.29 |
| 4500.00 | 11.74 | 1.37 |
| 5000.00 | 11.67 | 1.46 |
| 5500.00 | 11.57 | 1.55 |
| 6000.00 | 11.52 | 1.69 |



Notes

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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