



# THE DATASHEET OF VAT-10W2+



Coaxial

# SMA Fixed Attenuator

50Ω 2W 10dB DC to 6000 MHz

## VAT-10W2+



Generic photo used for illustration purposes only

CASE STYLE: DC1066

|            |           |
|------------|-----------|
| Connectors | Model     |
| SMA        | VAT-10W2+ |

**+RoHS Compliant**

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

### 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.

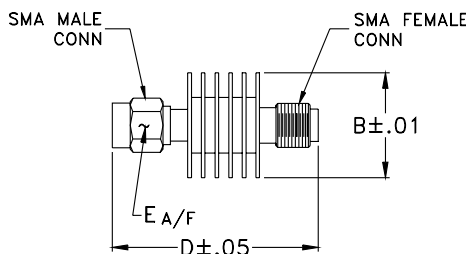
### Features

- 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

### Outline Drawing



### Outline Dimensions (inch/mm)

|       |       |      |       |
|-------|-------|------|-------|
| B     | D     | E    | wt    |
| .74   | 1.43  | .312 | grams |
| 18.80 | 36.32 | 7.92 | 11.4  |

### Electrical Specifications

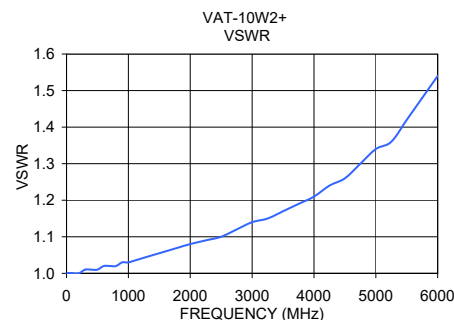
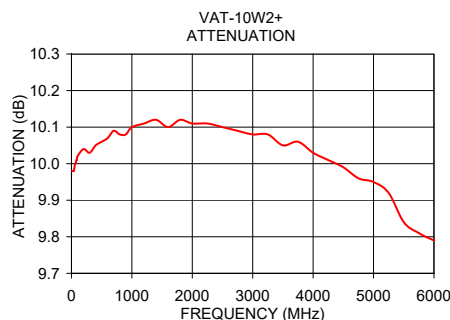
| FREQ. RANGE (MHz) | ATTENUATION * (dB) |         |         |          |      | VSWR (:1) |      |         |      |         | MAX. INPUT POWER (W) |
|-------------------|--------------------|---------|---------|----------|------|-----------|------|---------|------|---------|----------------------|
|                   | Flatness **        |         |         |          |      | DC-3 GHz  |      | 3-5 GHz |      | 5-6 GHz |                      |
|                   | DC-3 GHz           | 3-5 GHz | 5-6 GHz | DC-6 GHz |      | Typ.      | Max. | Typ.    | Max. | Typ.    |                      |
| $f_L$ - $f_U$     | Nom.               | Typ.    | Typ.    | Typ.     | Typ. | Typ.      | Max. | Typ.    | Max. | Typ.    |                      |
| DC-6000           | 10±0.3             | 0.10    | 0.20    | 0.15     | 0.35 | 1.15      | 1.25 | 1.35    | 1.60 | 1.60    | 2.0                  |

\* Attenuation varies by 0.3 dB max. over temperature.

\*\* Flatness= variation over band divided by 2.

### Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 10.00           | 9.98             | 1.00      |
| 100.00          | 10.02            | 1.00      |
| 1000.00         | 10.10            | 1.03      |
| 2000.00         | 10.11            | 1.08      |
| 3000.00         | 10.08            | 1.14      |
| 4000.00         | 10.03            | 1.21      |
| 4500.00         | 9.99             | 1.26      |
| 5000.00         | 9.95             | 1.34      |
| 5500.00         | 9.84             | 1.42      |
| 6000.00         | 9.79             | 1.54      |



### Notes

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