

# SMA Fixed Attenuator

50Ω 2W 6dB DC to 6000 MHz

VAT-6W2+



## 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

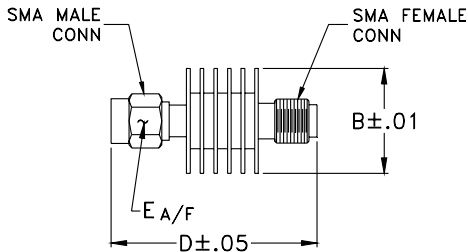
CASE STYLE: DC1066

| Connectors | Model    | Price       | Qty.    |
|------------|----------|-------------|---------|
| SMA        | VAT-6W2+ | \$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  |

## Electrical Specifications

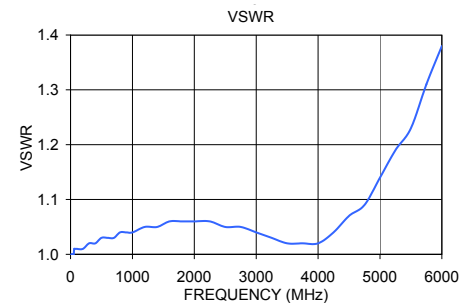
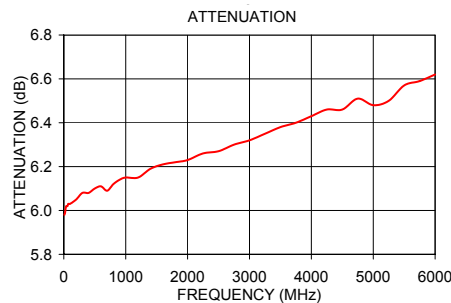
| FREQ.<br>RANGE<br>(MHz) | ATTENUATION *<br>(dB)<br>Flatness ** |         |         |          |      | VSWR<br>(:1) |         |         |      |      | MAX.<br>INPUT<br>POWER<br>(W) |
|-------------------------|--------------------------------------|---------|---------|----------|------|--------------|---------|---------|------|------|-------------------------------|
|                         |                                      |         |         |          |      |              |         |         |      |      |                               |
|                         | 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. | Typ.         | Max.    | Typ.    | Max. | Typ. |                               |
| DC-6000                 | 6±0.3                                | 0.20    | 0.20    | 0.20     | 0.45 | 1.10         | 1.20    | 1.30    | 1.45 | 1.50 | 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           | 5.98             | 1.00      |
| 100.00          | 6.03             | 1.01      |
| 1000.00         | 6.15             | 1.04      |
| 2000.00         | 6.23             | 1.06      |
| 3000.00         | 6.32             | 1.04      |
| 4000.00         | 6.43             | 1.02      |
| 4500.00         | 6.46             | 1.07      |
| 5000.00         | 6.48             | 1.14      |
| 5500.00         | 6.57             | 1.23      |
| 6000.00         | 6.62             | 1.38      |



## 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-Circuit's 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](http://www.minicircuits.com/MCLStore/terms.jsp)

