

# FIXED ATTENUATORS

## Designer's Kit K1-VAT+

MINI-CIRCUITS DESIGNER'S KITS  
**SPEED UP**  
THE SOLUTION!



### DC to 6 GHz

#### VAT+ Features

- Wideband, 50  $\Omega$
- Input power up to 1 W Max.
- 3, 6, 10, 20, 30 dB attenuation
- SMA Male and Female connectors
- Rugged Unibody construction
- Length less than 1.5"
- Low cost



All models are  
RoHS compliant

**\$49<sup>95</sup>**  
only *ea. kit (5 models, 1 of each, 5 total)*

#### Kit K1-VAT+ Electrical specifications of each model

| Model   | Freq.<br>(GHz)                 | Attenuation <sup>2</sup><br>(dB) |          |         |         |          | VSWR<br>(:1) |          |         |         |      | Input<br>Power<br>(W) |
|---------|--------------------------------|----------------------------------|----------|---------|---------|----------|--------------|----------|---------|---------|------|-----------------------|
|         |                                | Flatness <sup>1</sup>            |          |         |         |          |              |          |         |         |      |                       |
|         |                                |                                  | DC-3 GHz | 3-5 GHz | 5-6 GHz | DC-6 GHz |              | DC-3 GHz | 3-5 GHz | 5-6 GHz |      |                       |
|         | f <sub>L</sub> -f <sub>U</sub> | Nom.                             | Typ.     | Typ.    | Typ.    | Typ.     | Typ.         | Max.     | Typ.    | Max.    | Typ. | Max.                  |
| VAT-3+  | DC -6                          | 3±0.3                            | 0.20     | 0.15    | 0.15    | 0.45     | 1.05         | 1.20     | 1.15    | 1.40    | 1.40 | 1.0                   |
| VAT-6+  | DC -6                          | 6±0.3                            | 0.15     | 0.10    | 0.20    | 0.45     | 1.05         | 1.20     | 1.15    | 1.45    | 1.50 | 1.0                   |
| VAT-10+ | DC -6                          | 10±0.3                           | 0.10     | 0.20    | 0.15    | 0.35     | 1.05         | 1.25     | 1.20    | 1.60    | 1.90 | 1.0                   |
| VAT-20+ | DC -6                          | 20±0.3                           | 0.45     | 0.55    | 0.35    | 0.85     | 1.05         | 1.20     | 1.20    | 1.50    | 1.30 | 0.5                   |
| VAT-30+ | DC -6                          | 30±0.3                           | 1.10     | 0.70    | 0.35    | 1.30     | 1.05         | 1.20     | 1.15    | 1.30    | 1.25 | 0.5                   |

1. Flatness = variation over band divided by 2.

2. Attenuation varies by 0.3 dB max. over temperature.

**Mini-Circuits®**  
ISO 9001 ISO 14001 CERTIFIED

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For quick access to product information see MINI-CIRCUITS CATALOG & WEB SITE

RF/IF & MICROWAVE COMPONENTS

REV. A  
M110332  
K1-VAT+