

Coaxial

# N-Type Fixed Attenuator

50Ω 1W 10dB DC to 6000 MHz

UNAT-10+



## 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
- 1 watt rating
- rugged unibody construction
- off-the-shelf availability
- very low cost

## Applications

- impedance matching
- signal level adjustment

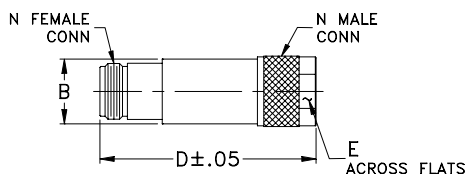
CASE STYLE: FF779

| Connectors | Model    | Price       | Qty.  |
|------------|----------|-------------|-------|
| N-Type     | UNAT-10+ | \$17.95 ea. | (1-9) |

**+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    |
|-------|-------|-------|-------|
| .68   | 2.11  | .718  | grams |
| 17.27 | 53.59 | 18.24 | 72.5  |

## Electrical Specifications

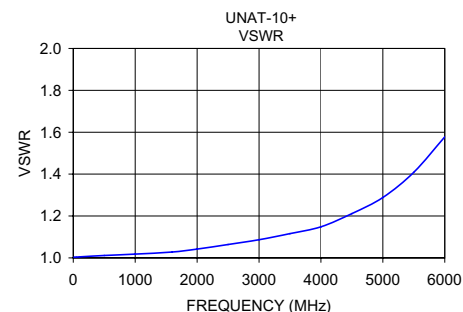
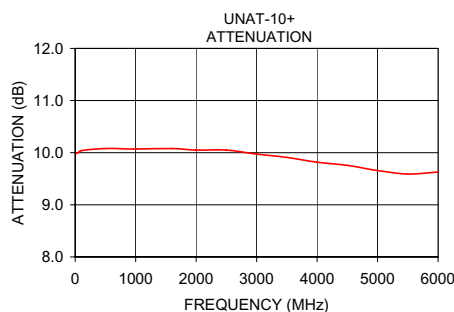
| FREQ.<br>RANGE<br>(MHz) | ATTENUATION *<br>(dB)<br>Flatness **  |      |      |      |      | VSWR<br>(:1)                 |      |      |      |      | MAX.<br>INPUT<br>POWER<br>(W) |
|-------------------------|---------------------------------------|------|------|------|------|------------------------------|------|------|------|------|-------------------------------|
|                         |                                       |      |      |      |      |                              |      |      |      |      |                               |
|                         | DC-3 GHz 3-4.5 GHz 4.5-6 GHz DC-6 GHz |      |      |      |      | DC-3 GHz 3-4.5 GHz 4.5-6 GHz |      |      |      |      |                               |
|                         | Nom.                                  | Typ. | Typ. | Typ. | Typ. | Typ.                         | Max. | Typ. | Max. | Typ. |                               |
| DC-6000                 | 10±0.3                                | 0.10 | 0.20 | 0.20 | 0.40 | 1.15                         | 1.25 | 1.20 | 1.50 | 1.50 | 1.0                           |

\* 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              | 9.98             | 1.00      |
| 50              | 10.00            | 1.00      |
| 100             | 10.04            | 1.00      |
| 500             | 10.08            | 1.01      |
| 1000            | 10.07            | 1.02      |
| 1600            | 10.08            | 1.03      |
| 2000            | 10.05            | 1.04      |
| 2500            | 10.05            | 1.06      |
| 3000            | 9.97             | 1.09      |
| 3500            | 9.91             | 1.12      |
| 4000            | 9.82             | 1.15      |
| 4500            | 9.76             | 1.21      |
| 5000            | 9.66             | 1.29      |
| 5500            | 9.59             | 1.41      |
| 6000            | 9.63             | 1.58      |



## 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)



[www.minicircuits.com](http://www.minicircuits.com) P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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