

Coaxial N-Type Fixed Attenuator

50Ω 1W 9dB DC to 6000 MHz

UNAT-9+
UNAT-9



CASE STYLE: FF779

| Connectors | Model | Price | Qty. |
|------------|-----------|-------------|-------|
| N-Type | UNAT-9(+) | \$15.95 ea. | (1-9) |

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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.

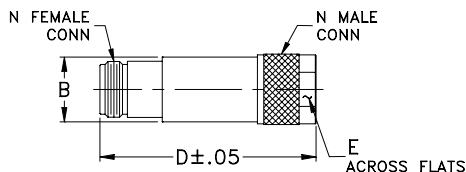
Features

- wideband coverage, DC to 6000 MHz
- 1 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 |
|-------|-------|-------|-------|
| .68 | 2.11 | .718 | grams |
| 17.27 | 53.59 | 18.24 | 72.5 |

Electrical Specifications

| FREQ. RANGE (MHz) | ATTENUATION * (dB) | | | | | VSWR (:1) | | | | | MAX. INPUT POWER (W) | |
|-------------------|--------------------|------|------|------|------|-----------|------|------|-----------|------|----------------------|-----------|
| | Flatness ** | | | | | DC-3 GHz | | | 3-4.5 GHz | | | 4.5-6 GHz |
| | Nom. | Typ. | Typ. | Typ. | Typ. | Typ. | Max. | Typ. | Max. | Typ. | | |
| DC-6000 | 9±0.3 | 0.15 | 0.10 | 0.10 | 0.15 | 1.05 | 1.20 | 1.10 | 1.43 | 1.50 | 1.0 | |

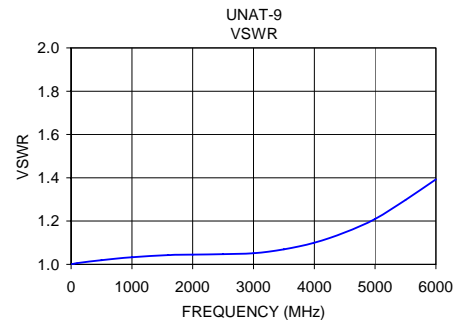
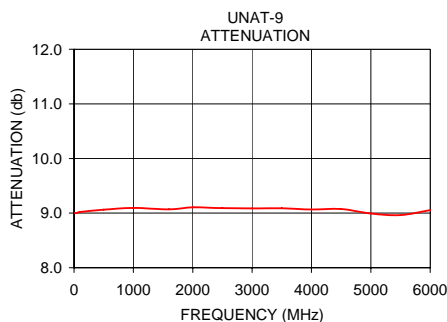
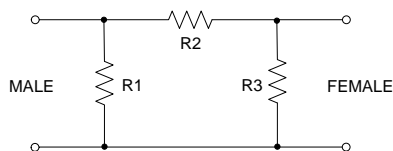
* Attenuation varies by 0.3 dB max. over temperature.

** Flatness= variation over band divided by 2.

Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 10 | 9.00 | 1.00 |
| 50 | 9.00 | 1.00 |
| 100 | 9.02 | 1.01 |
| 500 | 9.06 | 1.02 |
| 1000 | 9.09 | 1.03 |
| 1600 | 9.07 | 1.04 |
| 2000 | 9.11 | 1.05 |
| 2500 | 9.09 | 1.05 |
| 3000 | 9.09 | 1.05 |
| 3500 | 9.09 | 1.07 |
| 4000 | 9.07 | 1.10 |
| 4500 | 9.08 | 1.15 |
| 5000 | 8.99 | 1.21 |
| 5500 | 8.97 | 1.30 |
| 6000 | 9.05 | 1.39 |

Electrical Schematic



Mini-Circuits®
ISO 9001 ISO 14001 AS 9100 CERTIFIED

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IF/RF MICROWAVE COMPONENTS

For detailed performance specs & shopping online see web site

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet 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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