

# Precision Fixed Attenuator

50Ω 5W 6dB DC to 18000 MHz

## BW-N6W5+



CASE STYLE: DC736

| Connectors      | Model    |
|-----------------|----------|
| N-Female N-Male | BW-N6W5+ |

**+RoHS Compliant**

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

### Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C\*\*

\*\*With mated connectors. Unmated, 85°C max.

Permanent damage may occur if any of these limits are exceeded.

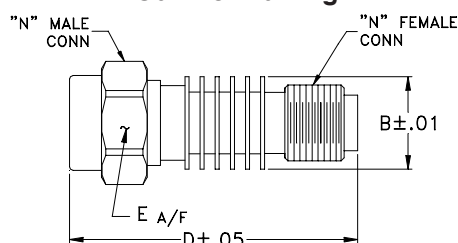
### Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ
- stainless steel N male and female connectors

### Applications

- matching
- instrumentation
- test set-ups

### Outline Drawing



### Outline Dimensions (inch/mm)

| B     | D     | E     | wt    |
|-------|-------|-------|-------|
| .61   | 1.90  | .812  | grams |
| 15.49 | 48.26 | 20.62 | 49.7  |

### Electrical Specifications

| FREQ. RANGE (MHz)       | ATTENUATION <sup>1</sup> (dB) |          | VSWR <sup>2</sup> (:1) |              |                 | MAX. INPUT POWER <sup>3</sup> (W) |
|-------------------------|-------------------------------|----------|------------------------|--------------|-----------------|-----------------------------------|
|                         | Nom.                          | ACCURACY | DC-4 GHz Max.          | 4-8 GHz Max. | 8-12.4 GHz Max. |                                   |
| $f_L - f_U$<br>DC-18000 | 6                             | ±0.40    | 1.20                   | 1.25         | 1.30            | 5                                 |

1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.

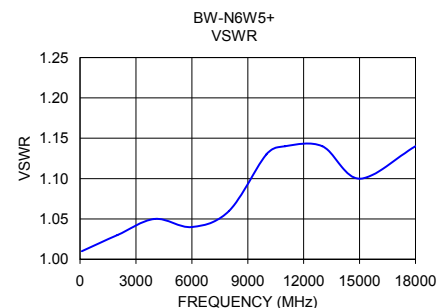
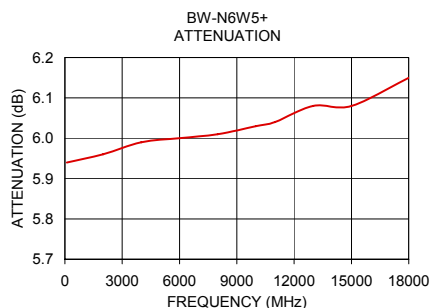
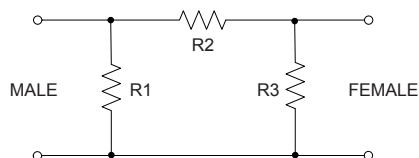
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5µsec. pulse width, 100 Hz PRF.

### Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 100             | 5.94             | 1.01      |
| 2000            | 5.96             | 1.03      |
| 4000            | 5.99             | 1.05      |
| 6000            | 6.00             | 1.04      |
| 8000            | 6.01             | 1.06      |
| 10000           | 6.03             | 1.13      |
| 11000           | 6.04             | 1.14      |
| 13000           | 6.08             | 1.14      |
| 15000           | 6.08             | 1.10      |
| 18000           | 6.15             | 1.14      |

### Electrical Schematic



### 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.

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