

Precision Fixed Attenuator

BW-N30W5+

50Ω 5W 30dB DC to 18000 MHz

Maximum Ratings

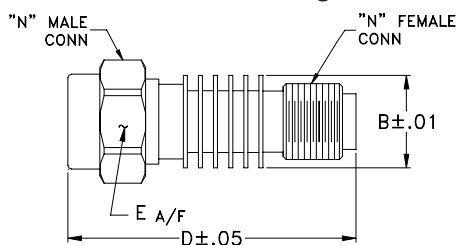
Operating Temperature -55°C to 100°C

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.

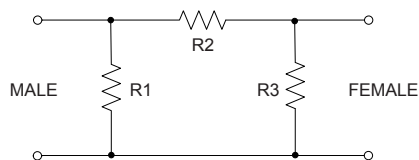
Outline Drawing



Outline Dimensions (inch/mm)

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

Electrical Schematic



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



CASE STYLE: DC736

| Connectors | Model | Price | Qty. |
|-----------------|-----------|-------------|--------|
| N-Female N-Male | BW-N30W5+ | \$54.95 ea. | (1-49) |

+RoHS Compliant

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

Electrical Specifications

| FREQ. RANGE (MHz) | ATTENUATION ¹ (dB) | | VSWR ² (:1) | | | MAX. INPUT POWER ³ (W) |
|-------------------|-------------------------------|----------|------------------------|--------------|-----------------|-----------------------------------|
| | Nom. | ACCURACY | DC-4 GHz Max. | 4-8 GHz Max. | 8-12.4 GHz Max. | |
| $f_L - f_U$ | | | | | | |
| DC-18000 | 30 | ±0.85 | 1.20 | 1.25 | 1.30 | 5 |

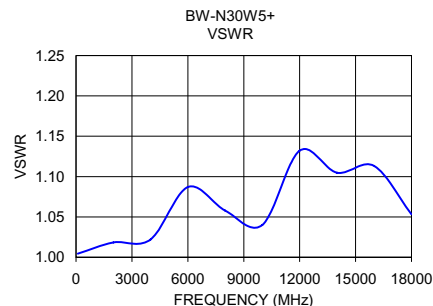
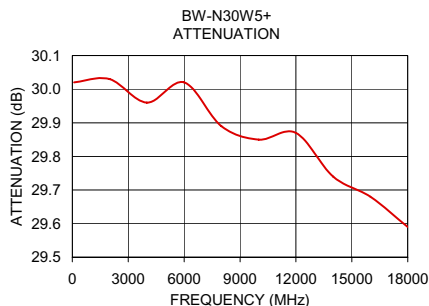
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.

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 | 30.02 | 1.00 |
| 2000 | 30.03 | 1.02 |
| 4000 | 29.96 | 1.02 |
| 6000 | 30.02 | 1.09 |
| 8000 | 29.89 | 1.06 |
| 10000 | 29.85 | 1.04 |
| 12000 | 29.87 | 1.13 |
| 14000 | 29.74 | 1.10 |
| 16000 | 29.68 | 1.11 |
| 18000 | 29.59 | 1.05 |



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

