



**THE DATASHEET OF  
BW-S3W5+**



# Precision Fixed Attenuator

## BW-S3W5+

50Ω 5W 3dB 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.

### Features

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



Generic photo used for illustration purposes only

CASE STYLE: DC737

Connectors Model  
**SMA Female-SMA Male BW-S3W5+**

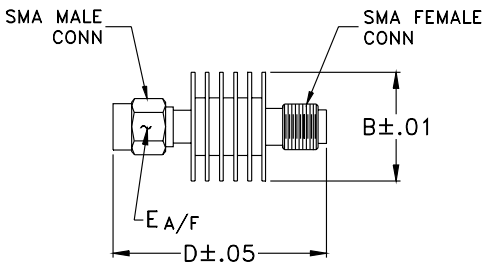
### +RoHS Compliant

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

### Applications

- matching
- instrumentation
- test set-ups

### Outline Drawing



### Outline Dimensions (inch/mm)

| B     | D     | E    | wt    |
|-------|-------|------|-------|
| .61   | 1.20  | .312 | grams |
| 15.49 | 30.48 | 7.92 | 9.1   |

### 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. |                                   |
| $f_L$ - $f_U$     |                               |          |                        |              |                 |                                   |
| DC-18000          | 3                             | ±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.

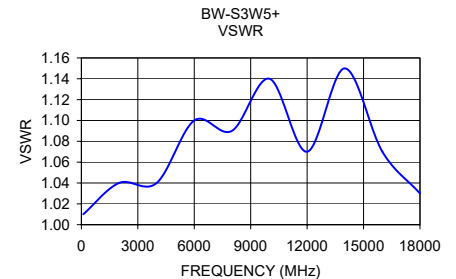
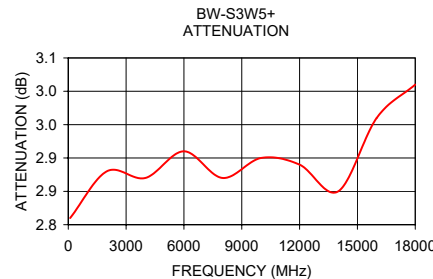
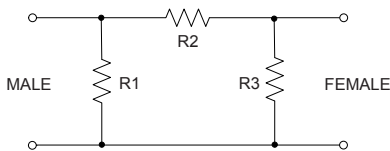
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

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             | 2.81             | 1.01      |
| 2000            | 2.88             | 1.04      |
| 4000            | 2.87             | 1.04      |
| 6000            | 2.91             | 1.10      |
| 8000            | 2.87             | 1.09      |
| 10000           | 2.90             | 1.14      |
| 12000           | 2.89             | 1.07      |
| 14000           | 2.85             | 1.15      |
| 16000           | 2.96             | 1.07      |
| 18000           | 3.01             | 1.03      |

### Electrical Schematic



### Notes

- 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.
- 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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