*Coaxial*

# Precision Fixed Attenuator

# BW-S2W2+

50Ω 2W 2dB DC to 18000 MHz

CASE STYLE: FF658

| Connectors | Model |
|---|---|
| **SMA Female-SMA Male** | BW-S2W2+ |

***+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.

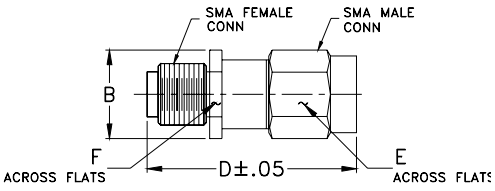
## Features

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

## Applications

- matching
- instrumentation
- test set-ups

## Outline Drawing




## Outline Dimensions (inch / mm)

| B | D | E | F | wt |
|---|---|---|---|---|
| .36 | .85 | .312 | .312 | grams |
| 9.14 | 21.59 | 7.92 | 7.92 | 4.3 |

## Electrical Specifications

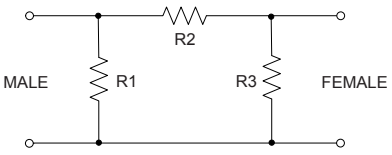
| FREQ. RANGE (MHz) | ATTENUATION[1] (dB) | | VSWR[2] (:1) | | | MAX. INPUT POWER[3] (W) |
|---|---|---|---|---|---|---|
| | | | DC-4 GHz | 4-8 GHz | 8-12.4 GHz | |
| $f_L$-$f_U$ | Nom. | ACCURACY | Max. | Max. | Max. | |
| DC-18000 | 2 | ±0.40 | 1.20 | 1.25 | 1.30 | 2 |

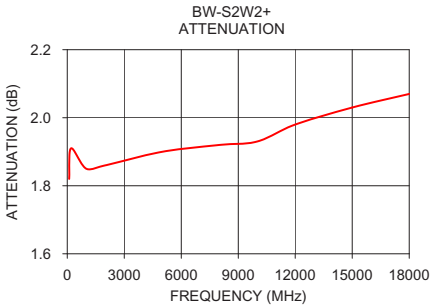
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

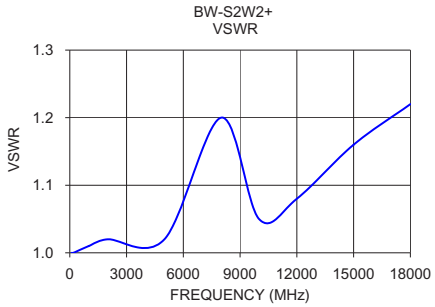
## Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|---|---|---|
| 100.00 | 1.82 | 1.00 |
| 200.00 | 1.91 | 1.00 |
| 1,000.00 | 1.85 | 1.01 |
| 2,000.00 | 1.86 | 1.02 |
| 5,000.00 | 1.90 | 1.02 |
| 8,000.00 | 1.92 | 1.20 |
| 10,000.00 | 1.93 | 1.05 |
| 12,000.00 | 1.98 | 1.08 |
| 15,000.00 | 2.03 | 1.16 |
| 18,000.00 | 2.07 | 1.22 |

## 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.
**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

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