

## Precision Fixed Attenuator

BW-S2W2+

50Ω 2W 2dB DC to 18000 MHz



Generic photo used for illustration purposes only

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.

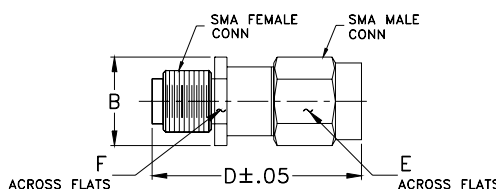
Permanent damage may occur if any of these limits are exceeded.

**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 <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	2	±0.40	1.20	1.25	1.30	2

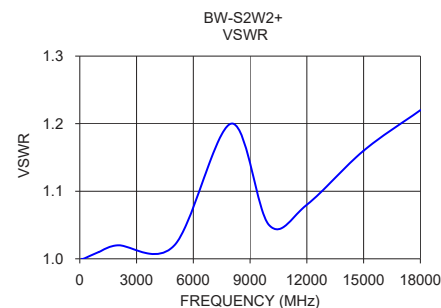
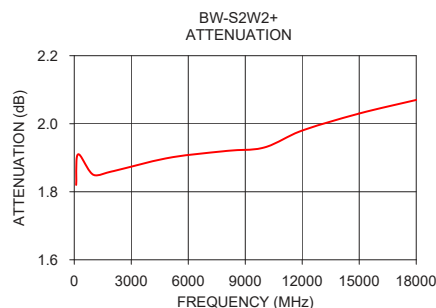
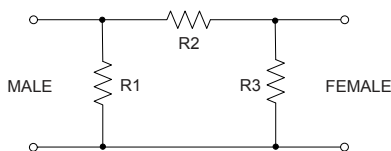
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.

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](http://www.minicircuits.com/MCLStore/terms.jsp)