

# Precision Fixed Attenuator **BW-S2W2+**

Mini-Circuits

 $50\Omega$  2 W 2 dB DC to 18 GHz SMA-Female to SMA-Male

#### **FEATURES**

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.20 Typ.
- Stainless Steel SMA Male and Female Connectors

#### **APPLICATIONS**

- Impedance Matching
- Instrumentation
- Test Setups



Generic photo used for illustration purposes only

Model No.	BW-S2W2+	
Case Style	FF658	
Connectors	SMA-Female to SMA-Male	

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our website for methodologies and qualification

#### **ELECTRICAL SPECIFICATIONS AT +25°C**

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
Attenuation, Nominal			2		dB
Attenuation, Accuracy <sup>1</sup>	DC - 18		±0.40		dB
	DC - 4			1.20	
VSWR <sup>2</sup>	4 - 8			1.25	:1
	8 - 12.4			1.30	
Input Power <sup>3</sup>				2.0	W

1. At +25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/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 0.5 W at +100°C. Peak Power 125 W max. 5 µsec. pulse width, 100 Hz PRF.

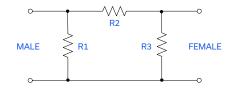
#### **ABSOLUTE MAXIMUM RATINGS**

Parameter	Ratings
Operating Temperature	-55°C to +100°C
Storage Temperature <sup>4</sup>	-55°C to +100°C

4. With mated connectors. Unmated, +85°C max.

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

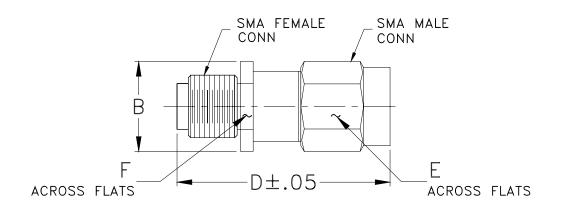
#### **ELECTRICAL SCHEMATIC**



REV. F ECO-024322 BW-S2W2+ MCL NY 250127



#### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch)

В	D	Е	F	wt
.36	.85	.312	.312	grams
9.14	21.59	7.92	7.92	4.3



**COAXIAL** 

500

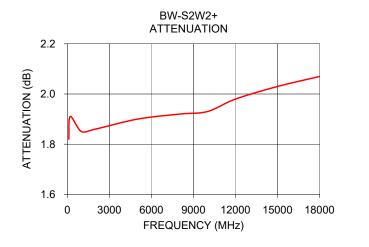
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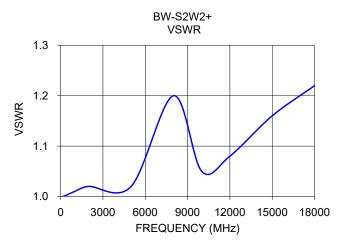
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#### **TYPICAL PERFORMANCE DATA AND CHARTS**

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





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. Α.

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