

#### COAXIAL

### Precision Fixed Attenuator **BW-S4W2+**

2 W 4 dB DC to 18 GHz SMA-Female to SMA-Male 500

#### **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-S4W2+	
Case Style	FF658	
Connectors	SMA-Female to SMA-Male	

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. our website for methodologies and qualific

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

Parameter	Frequency (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
Attenuation, Nominal			4		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

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

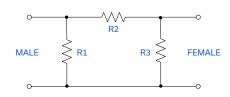
#### **ABSOLUTE MAXIMUM RATINGS**

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-S4W2+ MCL NY 250127



<sup>2.</sup> VSWR from 12.4 to 18 GHz, 1.6:1 typ.

<sup>3.</sup> 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.

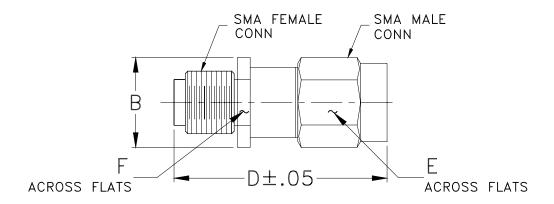


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50Ω 2 W 4 dB DC to 18 GHz SMA-Female to SMA-Male

#### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch )

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



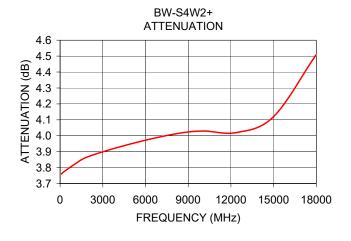
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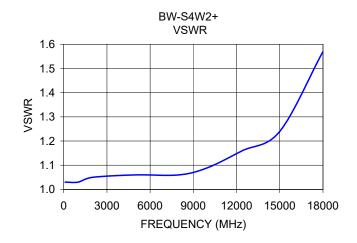
# Precision Fixed Attenuator **BW-S4W2+**

500 2 W 4 dB DC to 18 GHz SMA-Female to SMA-Male

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

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	3.76	1.03
199.90	3.77	1.03
1000.00	3.82	1.03
1999.90	3.87	1.05
5000.00	3.95	1.06
7999.90	4.01	1.06
9999.90	4.03	1.09
12400.10	4.02	1.16
15000.00	4.12	1.24
18000.00	4.51	1.57





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-Circuits' applicable established test performance criteria and measurement instructions.

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