

### COAXIAL

## Precision Fixed Attenuator **BW-S4W5+**

5 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-S4W5+	
Case Style	DC737	
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>				5.0	W

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

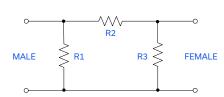
### **ABSOLUTE MAXIMUM RATINGS**

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-024323 BW-S4W5+ 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 2 W at +100°C. Peak Power 125 W max. 5 usec. pulse width, 100 Hz PRF.

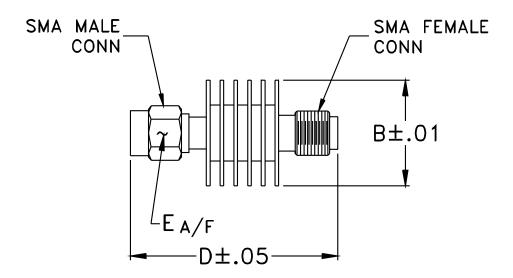


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### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS $\binom{lnch}{mm}$

В D Ε wt 1.20 .61 .312 grams 15.49 30.48 7.92 9.1



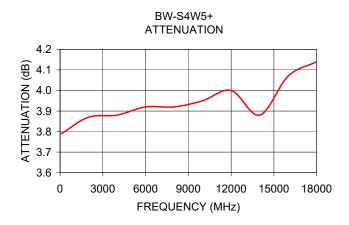
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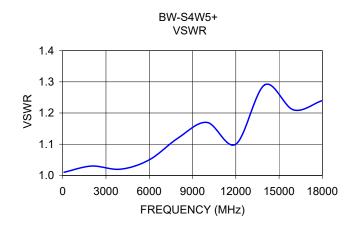
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500 DC to 18 GHz SMA-Female to SMA-Male 5 W 4 dB

#### TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	3.79	1.01
2000	3.87	1.03
4000	3.88	1.02
6000	3.92	1.05
8000	3.92	1.12
10000	3.95	1.17
12000	4.00	1.10
14000	3.88	1.29
16000	4.07	1.21
18000	4.14	1.24





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-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