

### COAXIAL

## Precision Fixed Attenuator **BW-S40W2+**

2 W 40 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-S40W2+		
Case Style	FF659		
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			40		dB	
Attenuation, Accuracy <sup>1</sup>	DC - 18		±1.5		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.

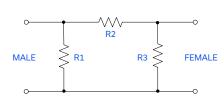
### **ABSOLUTE MAXIMUM RATINGS**

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

<sup>4.</sup> With mated connectors. Unmated, +85°C max.

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

### **ELECTRICAL SCHEMATIC**



REV. H ECO-024322 BW-S40W2+ 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.

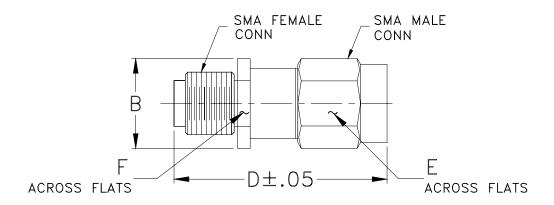


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 $50\Omega$  2 W 40 dB DC to 18 GHz SMA-Female to SMA-Male

### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch )

B D E F wt .36 .99 .312 .312 grams 9.14 25.15 7.92 7.92 5.1



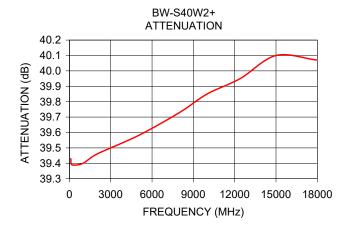
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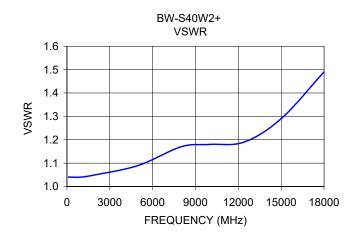
# Precision Fixed Attenuator **BW-S40W2+**

500 2 W 40 dB DC to 18 GHz SMA-Female to SMA-Male

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

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	39.43	1.04
199.90	39.39	1.04
1000.00	39.40	1.04
1999.90	39.46	1.05
5000.00	39.58	1.09
7999.90	39.73	1.17
9999.90	39.85	1.18
12400.10	39.95	1.19
15000.00	40.10	1.29
18000.00	40.07	1.49





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