

# Precision Fixed Attenuator **BW-S40W20+**

Mini-Circuits

 $50\Omega$  20 W 40 dB DC to 18 GHz SMA-Female to SMA-Male

#### **FEATURES**

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.25:1 Typ.
- Stainless Steel SMA-Male and Female Connectors

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#### **APPLICATIONS**

- Impedance Matching
- Instrumentation
- Test Setups
- High Power Measurements



Generic photo used for illustration purposes only

Model No.	BW-S40W20+	
Case Style	DC1660	
Connectors	SMA-Female to SMA-Male	

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

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

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
	DC - 18		40		
Attenuation	DC - 12.4	38.5		41.0	dB
	12.4 - 18	38.0		41.5	
	DC - 6		1.08	1.3	
VSWR	6 - 12.4		1.15	1.3	:1
	12.4 - 18		1.25	1.4	
Input Power <sup>1</sup>	DC - 18			20	W

1. Max. Power at +25°C ambient, derate linearly to 4 W +100°C. Peak power 500 W max. 5 µsec. pulse with, 100 Hz PRF.

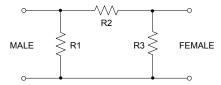
#### **ABSOLUTE MAXIMUM RATINGS<sup>2</sup>**

Parameter	Ratings
Operating Temperature <sup>3</sup>	-55°C to +100°C
Storage Temperature	-55°C to +100°C

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

3. +85°C with output into open or short.

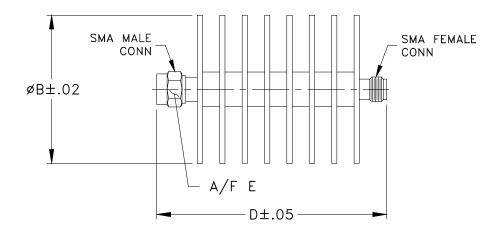
#### **ELECTRICAL SCHEMATIC**



REV. B ECO-024518 BW-S40W20+ MCL NY 250213



#### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch )

А	в	С	D	E	wt
	1.50		2.33	.312	grams
	38.10		59.18	7.92	49.2

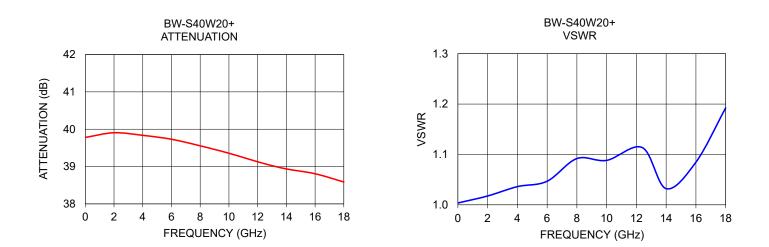
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#### **TYPICAL PERFORMANCE DATA AND CHARTS**

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	39.78	1.00
2.0	39.91	1.02
4.0	39.84	1.04
6.0	39.73	1.05
8.0	39.56	1.09
10.0	39.36	1.09
12.4	39.08	1.11
14.0	38.94	1.03
16.0	38.81	1.08
18.0	38.59	1.19



#### 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-Circuits' 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/terms/viewterm.html