

#### COAXIAL

### Precision Fixed Attenuator **BW-S30W20+**

20 W 30 dB DC to 18 GHz SMA-Female to SMA-Male 500

#### **FEATURES**

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.30:1 Typ.
- Stainless Steel SMA-Male and Female Connectors

#### **APPLICATIONS**

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



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

SMA-Female to SMA-Male

Connectors

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

Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC		18	GHz
	DC - 18		30		
Attenuation	DC - 12.4	29.0		31.0	dB
	12.4 - 18	28.5		31.5	
	DC - 6			1.3	
VSWR	6 - 12.4			1.3	:1
	12.4 - 18			1.4	
Input Power <sup>1</sup>	DC - 18			20	W

<sup>1.</sup> 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.

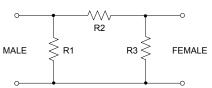
### **ABSOLUTE MAXIMUM RATINGS<sup>2</sup>**

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

<sup>2.</sup> Permanent damage may occur if any of these limits are exceeded.

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

#### **ELECTRICAL SCHEMATIC**



REV. C ECO-024518 BW-S30W20+ MCL NY 250213



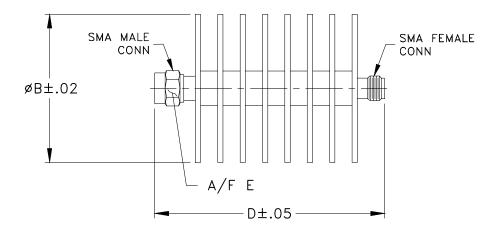


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50Ω 20 W 30 dB DC to 18 GHz SMA-Female to SMA-Male

#### **OUTLINE DRAWING**



### OUTLINE DIMENSIONS (Inch )

A B C D E wt -- 1.50 -- 2.33 .312 grams -- 38.10 -- 59.18 7.92 49.2



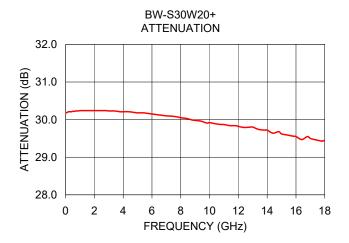
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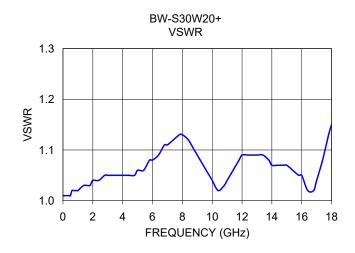
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#### TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Attenuation (dB)	VSWR (:1)
0.01	30.18	1.01
2.0	30.24	1.04
4.0	30.21	1.05
6.0	30.15	1.08
8.0	30.05	1.13
10.0	29.92	1.04
12.4	29.79	1.09
14.0	29.72	1.07
16.0	29.55	1.05
18.0	29.45	1.15





#### NOTES

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



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.