# Coaxial **Precision Fixed Attenuator**

3dB

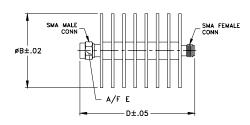
#### **50**Ω 20W

#### **Maximum Ratings**

**Operating Temperature** -55°C to 100°C\*\* -55°C to 100°C Storage Temperature \*\*85°C with output into open or short.

Permanent damage may occur if any of these limits are exceeded

#### **Outline Drawing**



#### Outline Dimensions (inch)

А	В	С	D	Е	wt
	1.50		2.33	.312	grams
	38.10		59.18	7.92	49.2

### DC to 18 GHz

#### **Features**

- DC to 18 GHz
- precise attenuation
- excellent VSWR, 1.30:1 typ
- stainless steel SMA male and female connectors

#### **Applications**

- matching
- instrumentation • test set-ups
- · high power measurements

## **BW-S3W20+**



Generic photo used for illustration purposes only CASE STYLE: DC1660

Connectors Model SMA-F SMA-M BW-S3W20+

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

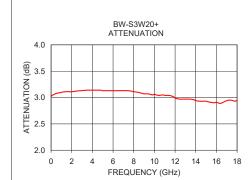
#### Electrical Specifications at 25°C

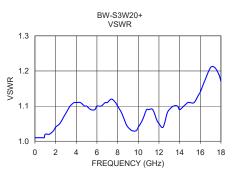
Parameter	Condition (GHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	18	GHz
Attenuation	DC - 18	_	3	_	
	DC - 12.4 12.4 - 18	2.5 2.25	_	3.5 3.75	dB
	DC - 6			1.3	:1
VSWR	6 - 12.4	_	_	1.3	
	12.4 - 18	_	_	1.4	
Input Power <sup>1</sup>	DC - 18	_	_	20	w

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

#### **Typical Performance Data**

Frequency (GHz)	Attenuation (dB)	VSWR (:1)	
0.01	3.02	1.01	
2.0	3.11	1.04	
4.0	3.14	1.11	
6.0	3.13	1.10	
8.0	3.11	1.10	
10.0	3.06	1.04	
12.4	2.97	1.04	
14.0	2.94	1.09	
16.0	2.91	1.14	
18.0	2.95	1.17	



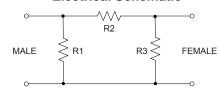


A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement ins C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collective). "Standard Terms": Burshearm of this use Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's 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 benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



REV. B M151107 BW-S3W20+ MD/TD/CP/AM 200504 Page 1 of 1

**Electrical Schematic** 



## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mini-Circuits: BW-S3W20+