

## Precision Fixed Attenuator

BW-S3W20+

50Ω 20W 3dB DC to 18 GHz

## Maximum Ratings

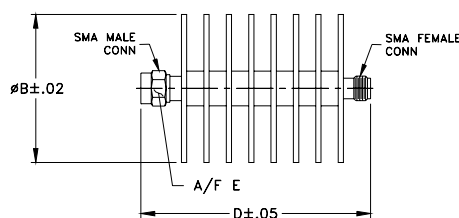
Operating Temperature -55°C to 100°C\*\*

Storage Temperature -55°C to 100°C

\*\*85°C with output into open or short.

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

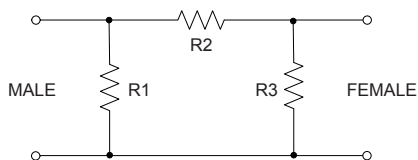
## Outline Drawing



## Outline Dimensions (inch)

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

## Electrical Schematic



## 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

CASE STYLE: DC1660

Connectors	Model	Price	Qty.
SMA-F SMA-M	BW-S3W20+	\$114.95 ea.	(1-49)

## +RoHS Compliant

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

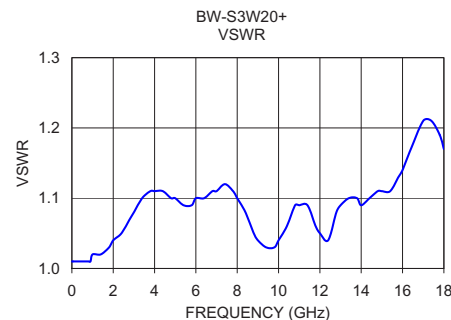
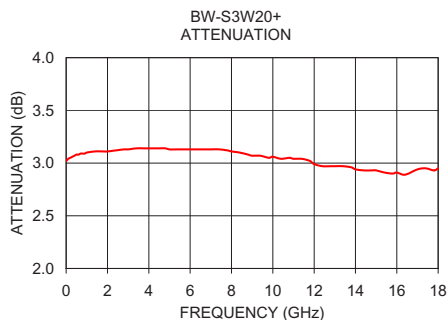
## Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Attenuation	DC - 18	—	3	—	
	DC - 12.4	2.5	—	3.5	
	12.4 - 18	2.25	—	3.75	dB
VSWR	DC - 6	—	—	1.3	
	6 - 12.4	—	—	1.3	
	12.4 - 18	—	—	1.4	:1
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



## 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-Circuit's 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

