

Precision Fixed Attenuator

50Ω 20W 6dB DC to 18 GHz

BW-S6W20+

Maximum Ratings

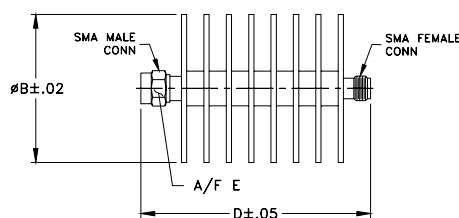
Operating Temperature -55°C to 100°C**

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/mm)

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

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



Generic photo used for illustration purposes only

CASE STYLE: DC1660

Connectors	Model
SMA-F SMA-M	BW-S6W20+

+RoHS Compliant

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

Electrical Specifications at 25°C

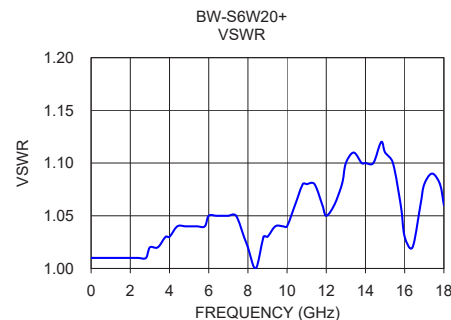
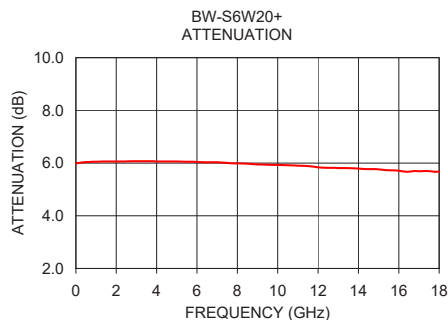
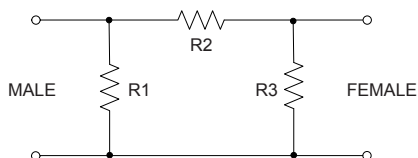
Parameter	Condition (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	18	GHz
Attenuation	DC - 18	—	6	—	dB
	DC - 12.4	5.5	—	6.5	
	12.4 - 18	5.25	—	6.75	
VSWR	DC - 6	—	—	1.3	:1
	6 - 12.4	—	—	1.3	
	12.4 - 18	—	—	1.4	
Input Power ¹	DC - 18	—	—	20	W

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	5.99	1.01
2.0	6.06	1.01
4.0	6.06	1.03
6.0	6.04	1.05
8.0	5.99	1.02
10.0	5.93	1.04
12.4	5.82	1.06
14.0	5.79	1.10
16.0	5.71	1.03
18.0	5.68	1.06

Electrical Schematic



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

