Precision Fixed Attenuator

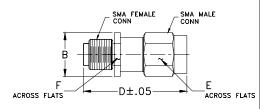
DC to 18000 MHz 50Ω **2W** 1dB

Maximum Ratings

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

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

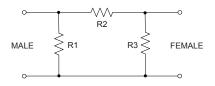
Outline Drawing



Outline Dimensions (inch)

wt	F	E	D	В
grams	.312	.312	.85	.36
4.3	7.92	7.92	21.59	9.14

Electrical Schematic



Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ.
- stainless steel SMA male and female connectors

BW-S1W2+



CASE STYLE: FF658

Connectors Model SMA Female-SMA Male BW-S1W2+

+RoHS Compliant

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

Applications

- matching
- instrumentation
- test set-ups

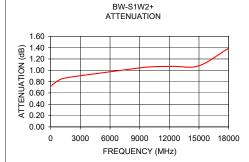
Electrical Specifications

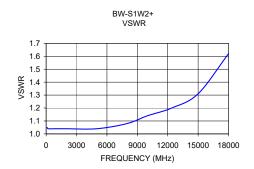
FREQ. RANGE (MHz)	ATTENUATION' (dB)			VSWR ² (:1)		MAX. INPUT POWER ³
			DC-4 GHz	4-8 GHz	8-12.4 GHz	(W)
f _L f _U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	1	±0.40	1.20	1.25	1.30	2

- 1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
- 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
- 3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	0.72	1.05
199.90	0.75	1.04
1000.00	0.84	1.04
1999.90	0.88	1.04
5000.00	0.95	1.04
7999.90	1.02	1.08
9999.90	1.06	1.14
12400.10	1.07	1.24
15000.00	1.08	1.31
18000.00	1.39	1.62





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

^{**}With mated connectors. Unmated, 85°C max.