Coaxial

Precision Fixed Attenuator

BW-S8W2+

50Ω 2W 8dB DC to 18000 MHz

CASE STYLE: FF658

Connectors	Model
SMA Female-SMA Male	BW-S8W2+

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

Maximum Ratings

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

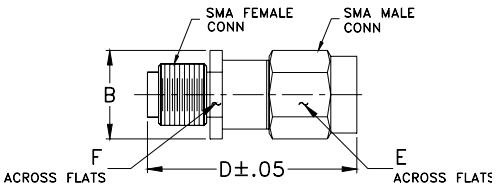
Features

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

Applications

- matching
- instrumentation
- test set-ups

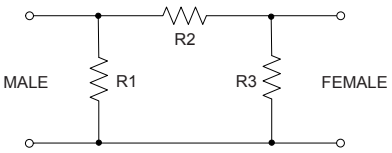
Outline Drawing



Outline Dimensions (inch / mm)

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

Electrical Schematic



Electrical Specifications

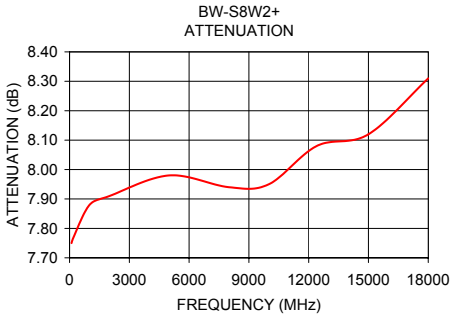
FREQ. RANGE (MHz)	ATTENUATION[1] (dB)		VSWR[2] (:1)			MAX. INPUT POWER[3] (W)
			DC-4 GHz	4-8 GHz	8-12.4 GHz	
f_L-f_U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	8	±0.60	1.20	1.25	1.30	2

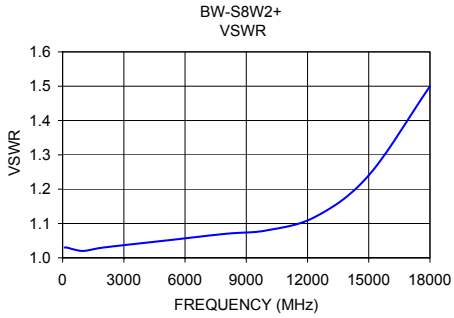
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

Typical Performance Data

**With mated connectors. Unmated, 85°C max.
Permanent damage may occur if any of these limits are exceeded.

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	7.75	1.03
199.90	7.77	1.03
1000.00	7.88	1.02
1999.90	7.91	1.03
5000.00	7.98	1.05
7999.90	7.94	1.07
9999.90	7.95	1.08
12400.10	8.08	1.12
15000.00	8.12	1.24
18000.00	8.31	1.50





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

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