Precision Fixed Attenuator

BW-S12W2+

DC to 18000 MHz 12dB 50Ω **2W**

Maximum Ratings

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

**With mated connectors. Unmated, 85°C max.

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

Features

• DC to 18000 MHz

Applications

 instrumentation • test set-ups

matching

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

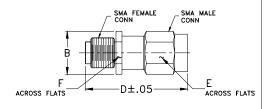
CASE STYLE: FF658

Connectors Model SMA Female-SMA Male BW-S12W2+

+RoHS Compliant

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

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 Specifications

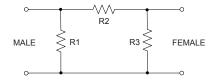
FREQ. RANGE (MHz)	ATTE	ENUATION¹ (dB)		VSWR ² (:1)		MAX. INPUT POWER ³
			DC-4 GHz	4-8 GHz	8-12.4 GHz	(W)
f _L -f _U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	12	±0.60	1.20	1.25	1.30	2

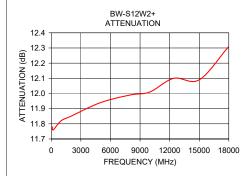
- 1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
- 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
 3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

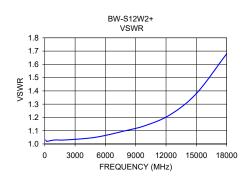
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	11.78	1.03
199.90	11.76	1.02
1000.00	11.82	1.03
1999.90	11.85	1.03
5000.00	11.94	1.05
7999.90	11.99	1.10
9999.90	12.01	1.14
12400.10	12.10	1.22
15000.00	12.09	1.38
18000.00	12.31	1.68

Electrical Schematic







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/WCLStore/terms.jsp

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