Precision Fixed Attenuator

BW-S20W2+

 50Ω **2W** 20dB DC to 18000 MHz

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

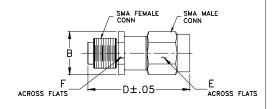
Generic photo used for illustration purposes only CASE STYLE: FF659

Connectors Model SMA Female-SMA Male BW-S20W2+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch)

wt	F	Ε	D	В
grams	.312	.312	.99	.36
5.1	7.92	7.92	25.15	9.14

Electrical Specifications

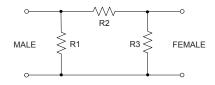
FREQ. RANGE (MHz)	ATT	ENUATION¹ (dB)		VSWR ² (:1)		MAX. INPUT POWER ³
			DC-4 GHz	4-8 GHz	8-12.4 GHz	(W)
f _L f _U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	20	-0.5, +0.8	1.20	1.25	1.30	2

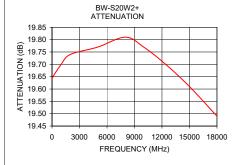
- 1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
- 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
 3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

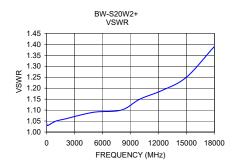
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
1.00	19.64	1.04
100.00	19.65	1.03
1000.00	19.70	1.05
1999.90	19.74	1.06
5000.00	19.77	1.09
7999.90	19.81	1.10
9999.90	19.77	1.15
12400.10	19.70	1.19
15000.00	19.61	1.25
18000.00	19.49	1.39

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 Ferms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Ferms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp