Coaxial

Precision Fixed Attenuator

BW-S2W5+

50Ω 5W 2dB DC to 18000 MHz

Generic photo used for illustration purposes only

CASE STYLE: DC737

Connectors	Model
SMA Female-SMA Male	BW-S2W5+

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

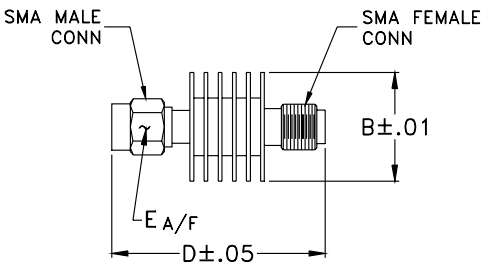
+RoHS Compliant

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

Applications

- matching
- instrumentation
- test set-ups

Outline Drawing



Outline Dimensions (inch / mm)

B	D	E	wt
.61	1.20	.312	grams
15.49	30.48	7.92	9.1

Electrical Specifications

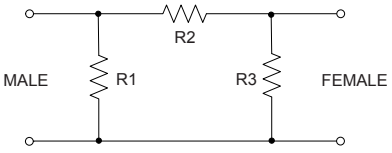
FREQ. RANGE (MHz)	ATTENUATION[1] (dB)		VSWR[2] (:1)			MAX. INPUT POWER[3] (W)
			DC-4 GHz	4-8 GHz	8-12.4 GHz	
f_L-f_U	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	2	±0.40	1.20	1.25	1.30	5

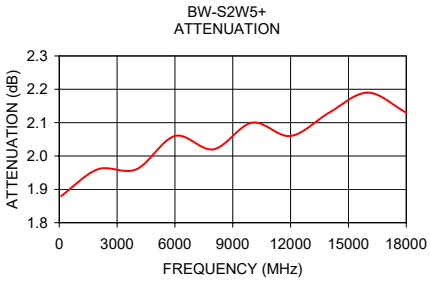
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5μsec pulse width, 100 Hz PRF.

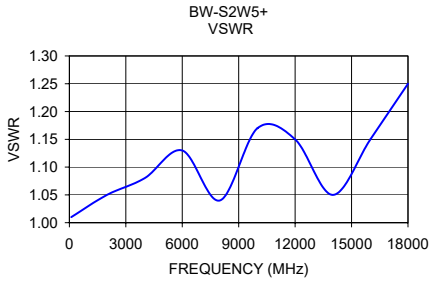
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100.00	1.88	1.01
2000.00	1.96	1.05
4000.00	1.96	1.08
6000.00	2.06	1.13
8000.00	2.02	1.04
10000.00	2.10	1.17
12000.00	2.06	1.15
14000.00	2.13	1.05
16000.00	2.19	1.15
18000.00	2.13	1.25

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

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