## **Precision Fixed Attenuator**

### BW-S15W5+

 $50\Omega$ 

5W

15dB

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
- precise attenuation

**Applications** 

 instrumentation • test set-ups

matching

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

# Generic photo used for illustration purposes only

CASE STYLE: DC737

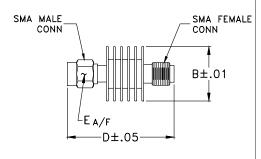
Connectors Model

SMA Female-SMA Male BW-S15W5+

#### +RoHS Compliant

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

#### **Outline Drawing**



#### Outline Dimensions (inch )

В D Е wt 1.20 .61 .312 grams 15.49 30.48 7.92 9.1

#### **Electrical Specifications**

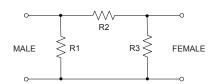
FREQ. RANGE (MHz)	ATTENUATION' (dB)		VSWR <sup>2</sup> (:1)			MAX. INPUT POWER <sup>3</sup>
			DC-4 GHz	4-8 GHz	8-12.4 GHz	(W)
f <sub>L</sub> f <sub>U</sub>	Nom.	ACCURACY	Max.	Max.	Max.	
DC-18000	15	±0.60	1.20	1.25	1.30	5

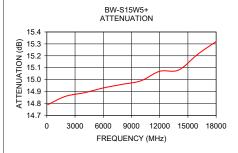
- 1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.
- 2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
- 3. Average power at 25°C ambient, derate linearly to 2W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF.

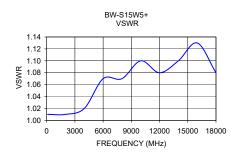
#### **Typical Performance Data**

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
100	14.79	1.01
2000	14.86	1.01
4000	14.89	1.02
6000	14.93	1.07
8000	14.96	1.07
10000	14.99	1.10
12000	15.07	1.08
14000	15.08	1.10
16000	15.21	1.13
18000	15.32	1.08

#### **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