

Precision Fixed Attenuator

BW-S30W5+

50Ω 5W 30dB DC to 18000 MHz

Maximum Ratings

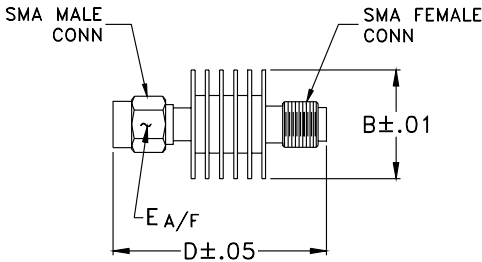
Operating Temperature -55°C to 100°C

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.

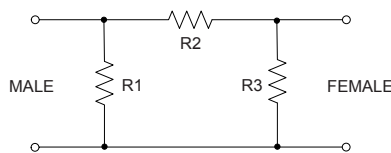
Outline Drawing



Outline Dimensions (inch/mm)

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

Electrical Schematic



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



Generic photo used for illustration purposes only

CASE STYLE: DC737

Connectors	Model
SMA Female-SMA Male	BW-S30W5+

+RoHS Compliant

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

Electrical Specifications

FREQ. RANGE (MHz)	ATTENUATION ¹ (dB)		VSWR ² (:1)			MAX. INPUT POWER ³ (W)
	Nom.	ACCURACY	DC-4 GHz Max.	4-8 GHz Max.	8-12.4 GHz Max.	
f_L - f_U						
DC-18000	30	±0.85	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	30.02	1.00
2000	30.03	1.02
4000	29.96	1.02
6000	30.02	1.09
8000	29.89	1.06
10000	29.85	1.04
12000	29.87	1.13
14000	29.74	1.10
16000	29.68	1.11
18000	29.59	1.05

Notes

- 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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