Coaxial Precision Fixed Attenuator

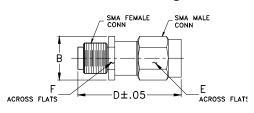
50Ω 2W 30dB

Maximum Ratings

Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C**		
**With mated connectors. Unn	nated, 85°C max.		

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

Outline Drawing



Outline Dimensions (inch)

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

DC to 18000 MHz

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: FF659

CASE STILE. IT 059

Connectors Model
SMA Female-SMA Male BW-S30W2+

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

Electrical Specifications

ATTENUATION' (dB)		DC-4 GHz	VSWR ² (:1) 4-8 GHz	8-12.4 GHz	MAX. INPUT POWER ³ (W)
Nom.	ACCURACY	Max.	Max.	Max.	
30	±0.85	1.20	1.25	1.30	2
	Nom.	(dB) Nom. ACCURACY	(dB) DC-4 GHz Nom. ACCURACY Max.	(dB) (:1) DC-4 4-8 GHz GHz Nom. ACCURACY Max. Max.	(dB) (:1) DC-4 4-8 8-12.4 GHz GHz GHz Nom. ACCURACY Max. Max.

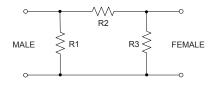
At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004dB/dB/°C typ.

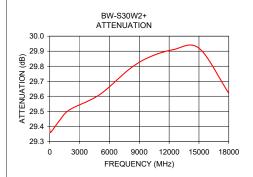
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

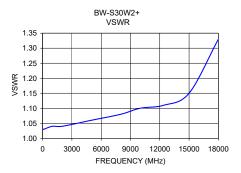
3. Average power at 25°C ambient, derate linearly to 0.5W at 100°C. Peak Power 125W max. 5µsec pulse width, 100 Hz PRF

Typical Performance Data Attenuation VSWR Frequency (MHz) (dB) (:1) 1.00 29.38 1.03 100.00 29.36 1.03 1000.00 29.44 1.04 1999.90 29.51 1.04 5000.00 29.61 1.06 7999.90 29.78 1.08 9999 90 29.86 1 10 12400.10 29.91 1.11 15000.00 29.92 1.15 18000.00 29.62 1.33

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-Circuit 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



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