COAXIAL

Precision Fixed Attenuator BW-S30W2+

50Ω 2 W 30 dB DC to 18 GHz SMA-Female to SMA-Male

FEATURES

- DC to 18 GHz
- Precision Attenuation
- Excellent VSWR, 1.20 Typ.
- Stainless Steel SMA Male and Female Connectors

Generic photo used for illustration purposes only

Model No.	BW-S30W2+
Case Style	FF659
Connectors	SMA-Female to SMA-Male

APPLICATIONS

- Impedance Matching
- Instrumentation
- Test Setups

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

ELECTRICAL SPECIFICATIONS AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC		18	GHz
Attenuation, Nominal			30		dB
Attenuation, Accuracy[1]	DC - 18		±0.85		dB
VSWR[2]	DC - 4 4 - 8 8 - 12.4			1.20 1.25 1.30	:1
Input Power[3]				2.0	W

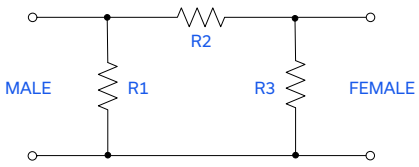
1. At +25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C typ.
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.
3. Average power at +25°C ambient, derate linearly to 0.5 W at +100°C. Peak Power 125 W max. 5 µsec. pulse width, 100 Hz PRF.

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-55°C to +100°C
Storage Temperature[4]	-55°C to +100°C

4. With mated connectors. Unmated, +85°C max.
Permanent damage may occur if any of these limits are exceeded.

ELECTRICAL SCHEMATIC



REV. F
ECO-024322
BW-S30W2+
MCL NY
250127

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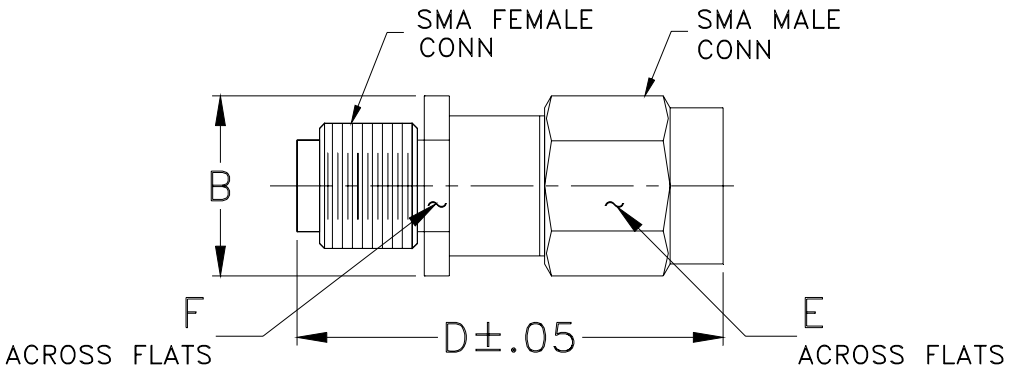
OUTLINE DRAWING



OUTLINE DIMENSIONS (Inch / mm)

B	D	E	F	wt
.36	.99	.312	.312	grams
9.14	25.15	7.92	7.92	5.1

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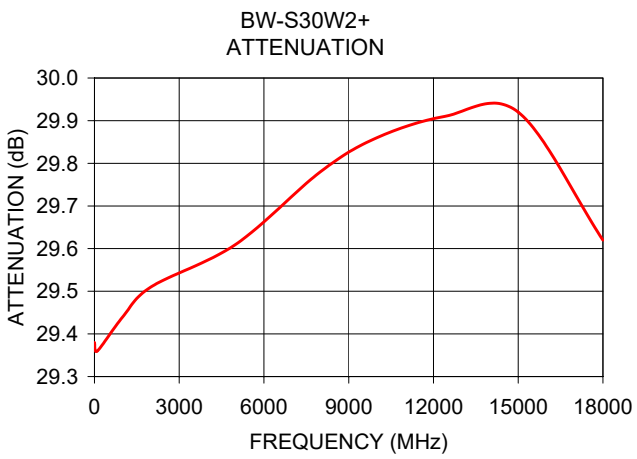
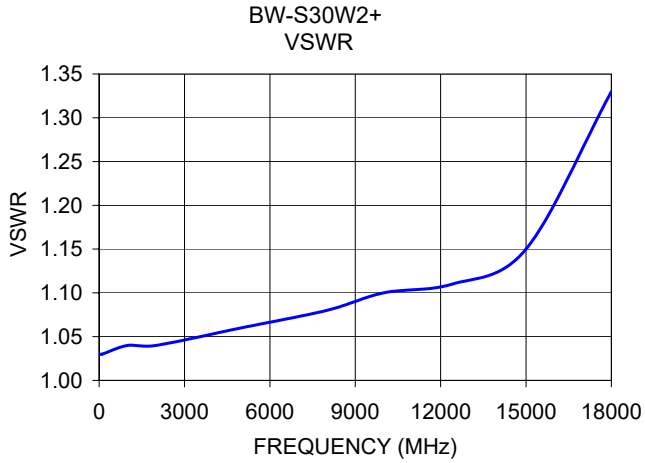
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Attenuation (dB)	VSWR (: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





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-Circuits' 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/terms/viewterm.html