

Coaxial

Precision Fixed Attenuator

BW-S7W2+

50Ω 2W 7dB DC to 18000 MHz



Generic photo used for illustration purposes only

CASE STYLE: FF658

| | |
|---------------------|----------|
| Connectors | Model |
| SMA Female-SMA Male | BW-S7W2+ |

+RoHS Compliant

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

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.

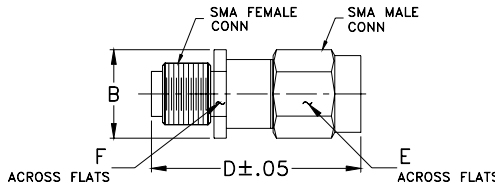
Features

- DC to 18000 MHz
- precise attenuation
- excellent VSWR, 1.20 typ.
- stainless steel SMA male and female connectors

Applications

- matching
- instrumentation
- test set-ups

Outline Drawing



Outline Dimensions (inch/mm)

| B | D | E | F | wt |
|------|-------|------|------|-------|
| .36 | .85 | .312 | .312 | grams |
| 9.14 | 21.59 | 7.92 | 7.92 | 4.3 |

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 | 7 | -0.4, +0.9 | 1.20 | 1.25 | 1.30 | 2 |

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

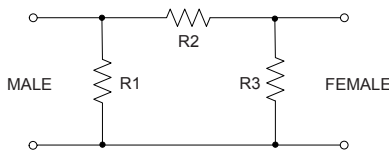
2. VSWR from 12.4 to 18 GHz, 1.6:1 typ.

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

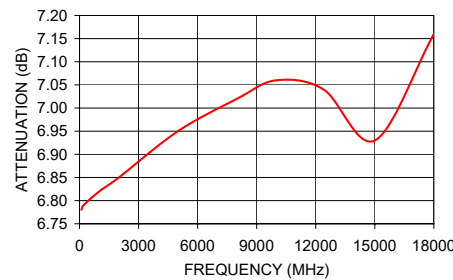
Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 100.00 | 6.78 | 1.02 |
| 199.90 | 6.79 | 1.02 |
| 1000.00 | 6.82 | 1.03 |
| 1999.90 | 6.85 | 1.04 |
| 5000.00 | 6.95 | 1.08 |
| 7999.90 | 7.02 | 1.11 |
| 9999.90 | 7.06 | 1.13 |
| 12400.10 | 7.04 | 1.17 |
| 15000.00 | 6.93 | 1.24 |
| 18000.00 | 7.16 | 1.39 |

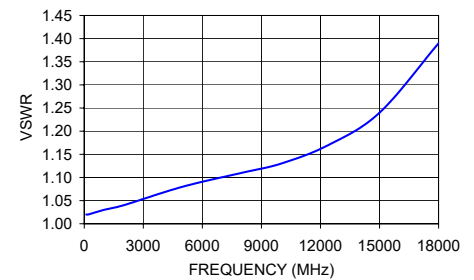
Electrical Schematic



BW-S7W2+ ATTENUATION



BW-S7W2+ VSWR



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.
- 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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Attenuators - Interconnects](#) category:

Click to view products by [Mini-Circuits](#) manufacturer:

Other Similar products are found below :

[R411803119](#) [R413806115](#) [R413808000](#) [R413810115](#) [R413850115](#) [R414510000](#) [R414701000](#) [R415303000](#) [BNC-13](#) [R411800121](#)
[R411801121](#) [R412412124](#) [R412450000](#) [R413800000](#) [R413805000](#) [R413830000](#) [R413840115](#) [R414730000](#) [R415420000](#) [R415703000](#)
[R416010000](#) [R420003110](#) [R411801000](#) [R411815121](#) [R413305000](#) [R413801000](#) [R414520000](#) [R411808121](#) [R412500124](#) [R412414124](#)
[R412501124](#) [HMC-C584](#) [R413802000](#) [R412400124](#) [R411700124](#) [R417310130](#) [R411801119](#) [R412419124](#) [R411703124](#) [R412401124](#)
[R443131000](#) [R417130110](#) [R414700000](#) [R414505000](#) [R411802119](#) [R417720128](#) [R420706110](#) [R413811000](#) [R413803115](#) [R414501000](#)