

Precision Fixed Attenuator

BW-S10-2W263+

50Ω 2W 10dB DC to 26 GHz



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 26 GHz
- precise attenuation
- excellent VSWR, 1.07 typ
- stainless steel SMA male and female connectors

CASE STYLE: FF658

| Connectors | Model | Price | Qty. |
|------------------|---------------|-------------|--------|
| SMA-Fem SMA-Male | BW-S10-2W263+ | \$34.95 ea. | (1-49) |

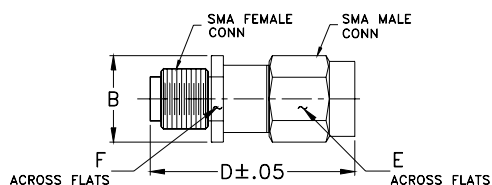
Applications

- matching
- instrumentation
- test set-ups

+RoHS Compliant

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

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 at 25°C

| Parameter | Condition (GHz) | Min. | Typ. | Max. | Unit |
|--------------------------------|-----------------|------|------|------|------|
| Frequency Range | | DC | — | 26 | GHz |
| Attenuation¹ | DC - 26 | — | 10 | — | |
| | DC - 12 | 9.6 | — | 10.4 | dB |
| | 12 - 18 | 9.6 | — | 10.4 | |
| | 18 - 26 | 9.6 | — | 10.8 | |
| VSWR | DC - 12 | — | 1.05 | 1.20 | |
| | 12 - 18 | — | 1.07 | 1.25 | :1 |
| | 18 - 26 | — | 1.13 | 1.35 | |
| Input Power² | DC - 26 | — | — | 2 | W |

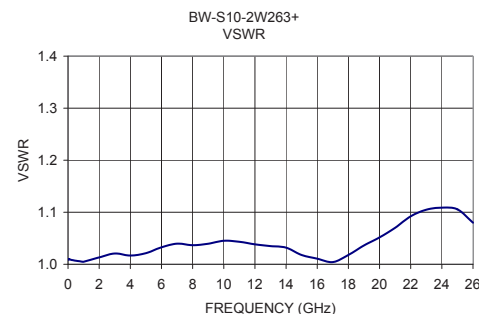
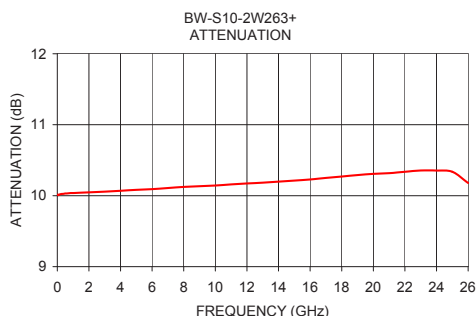
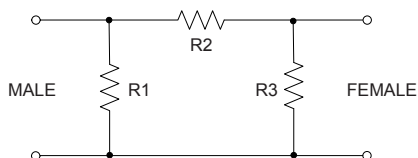
1. At 25°C, accuracy includes frequency and power variations. Temperature coefficient for attenuation: .0004 dB/dB/°C typ.

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

Typical Performance Data

| Frequency (GHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 0.01 | 10.01 | 1.01 |
| 1.0 | 10.04 | 1.00 |
| 4.0 | 10.07 | 1.02 |
| 8.0 | 10.12 | 1.04 |
| 10.0 | 10.14 | 1.05 |
| 12.0 | 10.17 | 1.04 |
| 14.0 | 10.20 | 1.03 |
| 16.0 | 10.23 | 1.01 |
| 18.0 | 10.27 | 1.02 |
| 20.0 | 10.31 | 1.05 |
| 26.0 | 10.18 | 1.08 |

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-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

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