

Coaxial SMA Fixed Attenuator

50Ω 1W 4dB DC to 12000 MHz

FW-4+

Maximum Ratings

| | |
|-----------------------------------------------------------------|----------------|
| Operating Temperature | -45°C to 100°C |
| Storage Temperature | -55°C to 100°C |
| Permanent damage may occur if any of these limits are exceeded. | |

Features

- wideband coverage, DC to 12000 MHz
- 1 watt rating
- rugged unibody construction
- off-the-shelf availability
- very low cost

Applications

- impedance matching
- signal level adjustment



Generic photo used for illustration purposes only

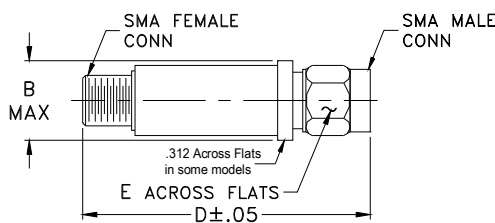
CASE STYLE: FF704

| Connectors | Model |
|------------|-------|
| SMA | FW-4+ |

+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 | wt |
|-------|-------|------|-------|
| .410 | 1.43 | .312 | grams |
| 10.41 | 36.32 | 7.92 | 10.0 |

Electrical Specifications at 25°C

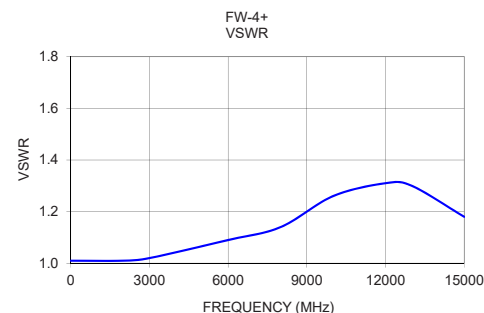
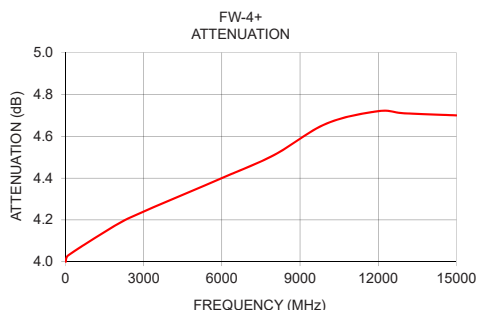
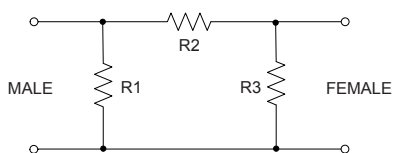
| Parameter | Condition (MHz) | Min. | Typ. | Max. | Unit |
|-----------------|-----------------|------|------|-------|------|
| Frequency Range | | DC | — | 12000 | MHz |
| Attenuation | 10 | — | 4 | — | dB |
| | DC - 3000 | 3.7 | 4.15 | 4.6 | |
| | 3000 - 8000 | 3.9 | 4.4 | 5.0 | |
| | 8000 - 12000 | 4.1 | 4.6 | 5.3 | |
| | DC - 12000 | | | | |
| VSWR | DC - 3000 | — | 1.05 | 1.20 | :1 |
| | 3000 - 8000 | — | 1.15 | 1.30 | |
| | 8000 - 12000 | — | 1.35 | — | |
| Input Power | DC - 12000 | — | — | 1.0 | W |

1. Flatness = variation over band divided by 2.

Typical Performance Data

| Frequency (MHz) | Attenuation (dB) | VSWR (:1) |
|-----------------|------------------|-----------|
| 10.00 | 4.00 | 1.01 |
| 100.00 | 4.03 | 1.01 |
| 2000.00 | 4.18 | 1.01 |
| 3000.00 | 4.24 | 1.02 |
| 6000.00 | 4.40 | 1.09 |
| 8000.00 | 4.51 | 1.14 |
| 10000.00 | 4.66 | 1.26 |
| 11000.00 | 4.66 | 1.28 |
| 11500.00 | 4.70 | 1.29 |
| 12000.00 | 4.72 | 1.31 |
| 15000.00 | 4.70 | 1.18 |

Electrical Schematic



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



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. A
M151107
ED-16254/4
FW-4+
DJ/CP/AM
200520
Page 1 of 1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mini-Circuits:](#)

[FW-4+](#)