

# Coaxial SMA Fixed Attenuator

50Ω 1W 1dB DC to 12000 MHz

## FW-1+



Generic photo used for illustration purposes only

CASE STYLE: FF704

Connectors	Model
SMA	FW-1+

**+RoHS Compliant**

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

### 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.

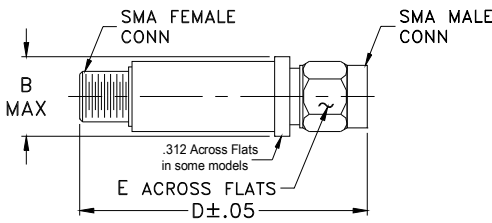
### Features

- 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

### 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

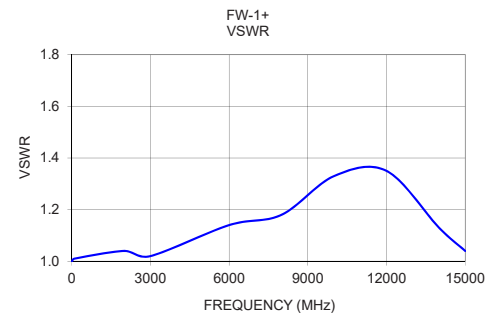
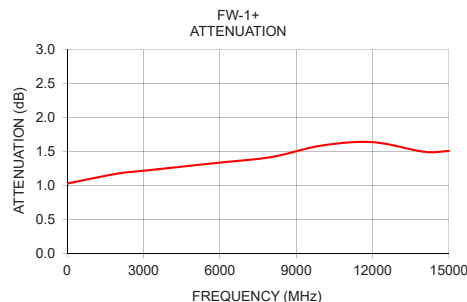
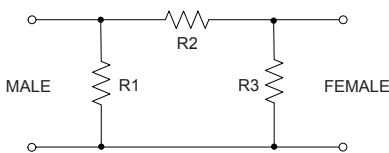
Parameter	Condition (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	12000	MHz
Attenuation	10	—	1	—	
	DC - 3000	0.8	1.15	1.5	dB
	3000 - 8000	1.0	1.30	1.7	
	8000 - 12000	1.15	1.60	2.0	
VSWR	DC - 3000	—	1.05	1.20	
	3000 - 8000	—	1.15	1.35	:1
	8000 - 12000	—	1.35	—	
Input Power	DC - 12000	—	—	1.0	W

1. Flatness = variation over band divided by 2.

### Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	1.03	1.00
100.00	1.04	1.01
2000.00	1.18	1.04
3000.00	1.22	1.02
6000.00	1.34	1.14
8000.00	1.42	1.18
10000.00	1.59	1.33
11000.00	1.56	1.34
11500.00	1.55	1.34
12000.00	1.64	1.35
15000.00	1.51	1.04

### 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.
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