

Coaxial SMA Fixed Attenuator

50Ω 1W 12dB DC to 12000 MHz

FW-12+

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

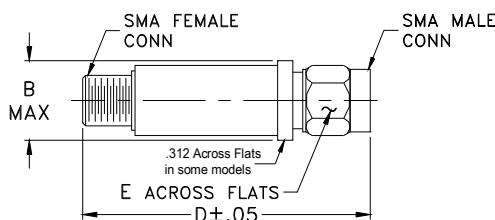
CASE STYLE: FF704

Connectors	Model
SMA	FW-12+

+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

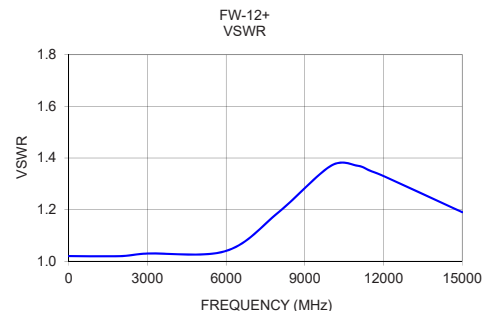
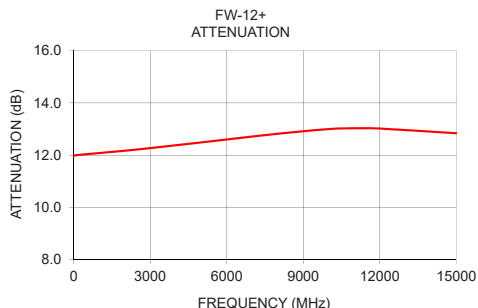
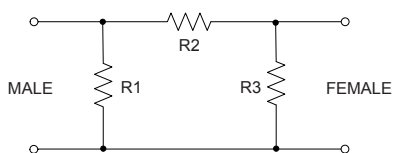
Parameter	Condition (MHz)	Min.	Typ.	Max.	Unit
Frequency Range		DC	—	12000	MHz
Attenuation	10	—	12	—	dB
	DC - 3000	11.5	12.15	12.8	
	3000 - 8000	11.75	12.55	13.6	
	8000 - 12000	12.1	13.05	13.8	
	DC - 12000				
VSWR	DC - 3000	—	1.05	1.20	:1
	3000 - 8000	—	1.20	1.35	
	8000 - 12000	—	1.40	—	
Input Power	DC - 12000	—	—	1.0	W

1. Flatness = variation over band divided by 2.

Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	11.97	1.02
100.00	12.00	1.02
2000.00	12.17	1.02
3000.00	12.27	1.03
6000.00	12.60	1.04
8000.00	12.82	1.19
10000.00	13.00	1.37
11000.00	13.03	1.37
11500.00	13.03	1.35
12000.00	13.02	1.33
15000.00	12.84	1.19

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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



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