SMA Fixed Attenuator

FW-20+

 50Ω

1W 20dB DC to 12000 MHz

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

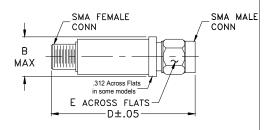
CASE STYLE: FF704

Connectors Model SMA FW-20+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch)

В D Ε .410 1.43 .312 grams 10 41 36.32 7 92 10.0

Electrical Specifications at 25°C

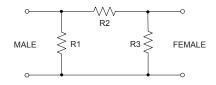
Parameter	Condition (MHz)	Min.	Тур.	Max.	Unit
Frequency Range		DC	_	12000	MHz
	10	_	20	_	
	DC - 3000	19.1	20.2	21.4	
Attenuation	3000 - 8000	19.45	21	22.9	dB
	8000 - 12000	20.25	21.85	23.2	
	DC - 3000	_	1.05	1.20	
VSWR	3000 - 8000	_	1.20	1.35	:1
	8000 - 12000	_	1.35	_	
Input Power	DC - 12000	_	_	1.0	w

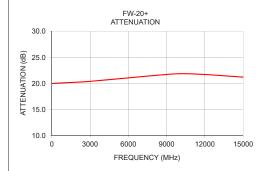
^{1.} Flatness = variation over band divided by 2.

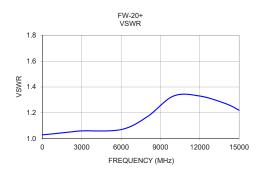
Typical Performance Data

Frequency (MHz)	Attenuation (dB)	VSWR (:1)
10.00	19.98	1.03
100.00	20.04	1.03
2000.00	20.27	1.05
3000.00	20.43	1.06
6000.00	21.09	1.07
8000.00	21.54	1.17
10000.00	21.89	1.33
12000.00	21.74	1.33
14000.00	21.41	1.27
15000.00	21.24	1.22

Electrical Schematic







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 ins.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively: "Standard Terms"): Purchases of this part. Ferrormance and updany authorities and 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-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

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