

# Coaxial Adapter, SMA-F to SMA-M

## SF-SM50+

50Ω

DC to 18 GHz



CASE STYLE: DJ836

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

Permanent damage may occur if any of these limits are exceeded.

### Features

- flat response
- excellent VSWR, 1.05:1 typ. up to 12.4 GHz and 1.15:1 typ. up to 18 GHz
- low cost adapters, available from stock
- rugged stainless steel body

Connectors	Model
Conn1 SMA-F	Conn2 SMA-M SF-SM50+

### Applications

- connector saver
- cable extender

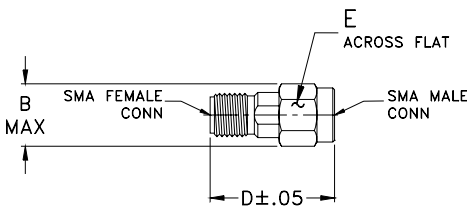
**+RoHS Compliant**

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

### Electrical Specifications $T_{AMB}=25^{\circ}C$

FREQUENCY (GHz)	INSERTION LOSS (dB)	VSWR (:1) Max.		
		DC-8 GHz	DC-12.4 GHz	DC-18 GHz
$f_L-f_U$	Typ.			
DC-18	0.1	1.15	1.28	1.30

### Outline Drawing



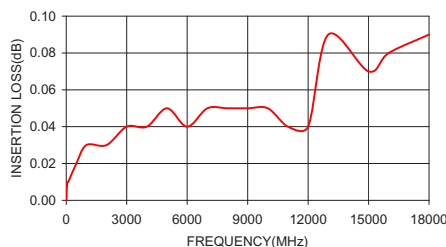
### Outline Dimensions (inch/mm)

A	B	C	D	E	wt
					grams
--	.36	--	0.72	.312	3.2
--	9.14	--	18.29	7.92	

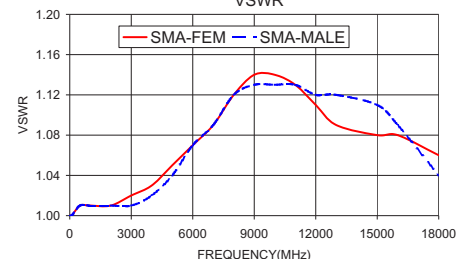
### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		SMA-F	SMA-M
10.00	0.00	1.00	1.00
50.00	0.01	1.00	1.00
100.00	0.01	1.00	1.00
500.00	0.02	1.01	1.01
1000.00	0.03	1.01	1.01
2000.00	0.03	1.01	1.01
3000.00	0.04	1.02	1.01
4000.00	0.04	1.03	1.02
5000.00	0.05	1.05	1.04
6000.00	0.04	1.07	1.07
7000.00	0.05	1.09	1.09
8000.00	0.05	1.12	1.12
9000.00	0.05	1.14	1.13
10000.00	0.05	1.14	1.13
11000.00	0.04	1.13	1.13
12000.00	0.04	1.11	1.12
13000.00	0.09	1.09	1.12
15000.00	0.07	1.08	1.11
16000.00	0.08	1.08	1.09
18000.00	0.09	1.06	1.04

SF-SM50+ INSERTION LOSS



SF-SM50+ VSWR



### 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/WCLStore/terms.jsp](http://www.minicircuits.com/WCLStore/terms.jsp)

