

Coaxial

# Adapter, N-FEM to SMA-FEM

## NF-SF50+

50Ω

DC to 18 GHz



Generic photo used for illustration purposes only

CASE STYLE: DJ827

Connectors	Model
Conn1 N-FEM	Conn2 SMA-FEM
NF-SF50+	

**+RoHS Compliant**

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

### 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.

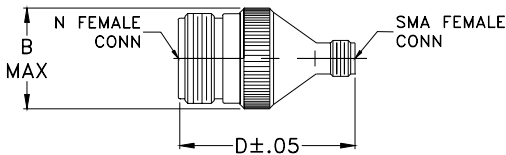
### Features

- flat response
- excellent VSWR
- passivated stainless steel
- low cost adapters, available from stock

### Applications

- interconnection of RF cables and equipment

### Outline Drawing



### Outline Dimensions (inch/mm)

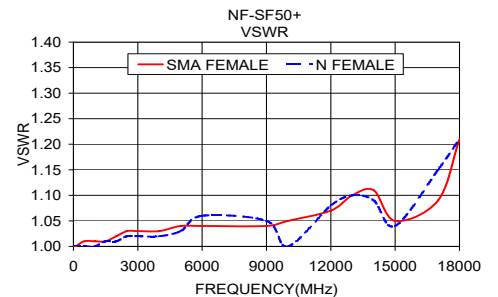
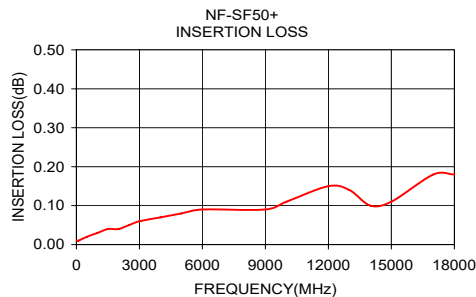
A	B	C	D	E	wt
--	.70	--	1.23	--	grams
--	17.78	--	31.24	--	26.0

### Electrical Specifications T<sub>AMB</sub>=25°C

FREQUENCY (GHz)	INSERTION LOSS (dB)	VSWR (:1) Max.		
		DC-8 GHz	DC-12.4 GHz	DC-18 GHz
f <sub>L</sub> -f <sub>U</sub>	Typ.			
DC-18	0.1	1.15	1.20	1.25

### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		N-FEM	SMA-FEM
10.00	0.01	1.00	1.00
50.00	0.01	1.00	1.00
100.00	0.01	1.00	1.00
500.00	0.02	1.00	1.01
1000.00	0.03	1.00	1.01
1500.00	0.04	1.01	1.01
2000.00	0.04	1.01	1.02
2500.00	0.05	1.02	1.03
3000.00	0.06	1.02	1.03
4000.00	0.07	1.02	1.03
5000.00	0.08	1.03	1.04
6000.00	0.09	1.06	1.04
9000.00	0.09	1.05	1.04
10000.00	0.11	1.00	1.05
12000.00	0.15	1.08	1.07
13000.00	0.14	1.10	1.10
14000.00	0.10	1.09	1.11
15000.00	0.11	1.04	1.05
17000.00	0.18	1.15	1.09
18000.00	0.18	1.21	1.21



### 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)



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