



COAXIAL

# Adapter

## NFFL-SF50+

50Ω DC to 18 GHz N-Female to SMA-Female

### FEATURES

- Flat response
- Excellent VSWR
- Four hole flange mount



Generic photo used for illustration purposes only

<b>Model No.</b>	NFFL-SF50+
<b>Case Style</b>	DJ1808
<b>Connectors</b>	N-Female to SMA Female

### +RoHS Compliant

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

### APPLICATIONS

- Interconnection of RF cables and equipment
- Instrumentation

### ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	18	GHz
Insertion Loss	DC - 18	-	0.01	-	dB
VSWR	DC - 8	-	-	1.15	:1
	DC - 12.4	-	-	1.20	
	DC - 18	-	-	1.30	

### ABSOLUTE MAXIMUM RATINGS

Parameter	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.

REV. B  
ECO-016681  
NFFL-SF50+  
MCL NY  
230419





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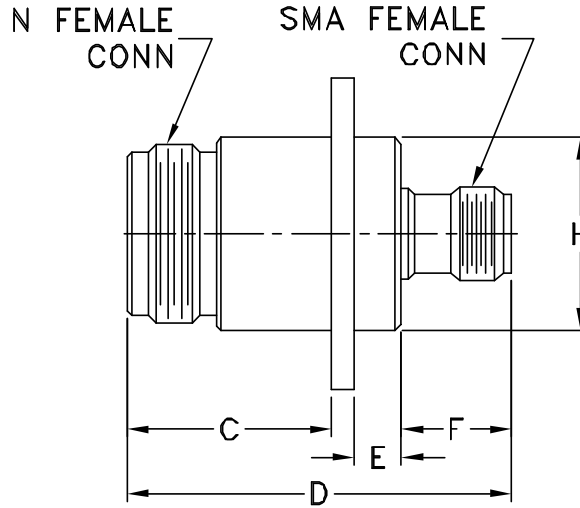
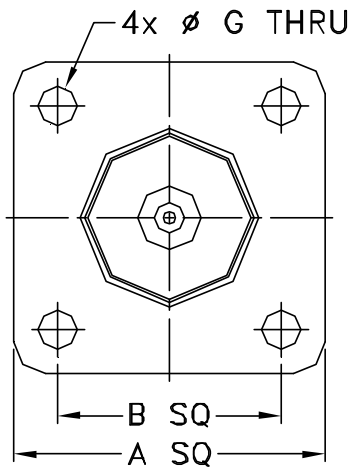
# Adapter

## NFFL-SF50+

Mini-Circuits

50Ω DC to 18 GHz N-Female to SMA-Female

### OUTLINE DRAWING



### OUTLINE DIMENSIONS (Inch/mm)

A	B	C	D	E
1.00	.718	.657	1.240	.157
25.4	18.24	16.7	31.5	4.0
F	G	H		wt
.350	.126	.620		grams
8.9	3.2	15.75		36.0



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# Adapter

## NFFL-SF50+

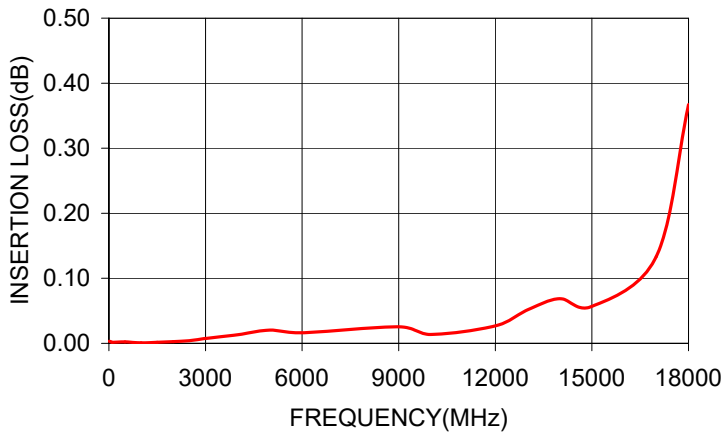
Mini-Circuits

50Ω DC to 18 GHz N-Female to SMA-Female

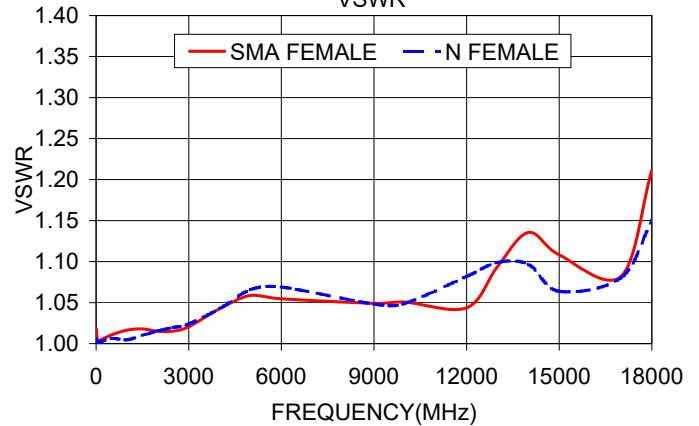
### TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		N- Female	SMA-Female
10.00	0.003	1.01	1.02
50.00	0.003	1.00	1.00
100.00	0.002	1.00	1.00
500.00	0.002	1.01	1.01
1000.00	0.001	1.00	1.02
1500.00	0.002	1.01	1.02
2000.00	0.003	1.02	1.02
2500.00	0.004	1.02	1.02
3000.00	0.008	1.02	1.02
4000.00	0.013	1.04	1.04
5000.00	0.020	1.07	1.06
6000.00	0.016	1.07	1.05
9000.00	0.026	1.05	1.05
10000.00	0.014	1.05	1.05
12000.00	0.027	1.08	1.04
13000.00	0.052	1.10	1.09
14000.00	0.069	1.10	1.14
15000.00	0.057	1.06	1.11
17000.00	0.133	1.08	1.08
18000.00	0.367	1.15	1.21

NFFL-SF50+  
INSERTION LOSS



NFFL-SF50+  
VSWR



NOTES

- 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 instructions.
- C. 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/terms/viewterm.html](http://www.minicircuits.com/terms/viewterm.html)



# Adapter, N Female to SMA Female

# NFFL-SF50+

## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	N-FEMALE VSWR (:1)	SMA-FEMALE VSWR (:1)
10	0.003	1.01	1.02
50	0.003	1.00	1.00
100	0.002	1.00	1.00
500	0.002	1.01	1.01
1000	0.001	1.00	1.02
1500	0.002	1.01	1.02
2000	0.003	1.02	1.02
2500	0.004	1.02	1.02
3000	0.008	1.02	1.02
4000	0.013	1.04	1.04
5000	0.020	1.07	1.06
6000	0.016	1.07	1.05
9000	0.026	1.05	1.05
10000	0.014	1.05	1.05
12000	0.027	1.08	1.04
13000	0.052	1.10	1.09
14000	0.069	1.10	1.14
15000	0.057	1.06	1.11
17000	0.133	1.08	1.08
18000	0.367	1.15	1.21



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site

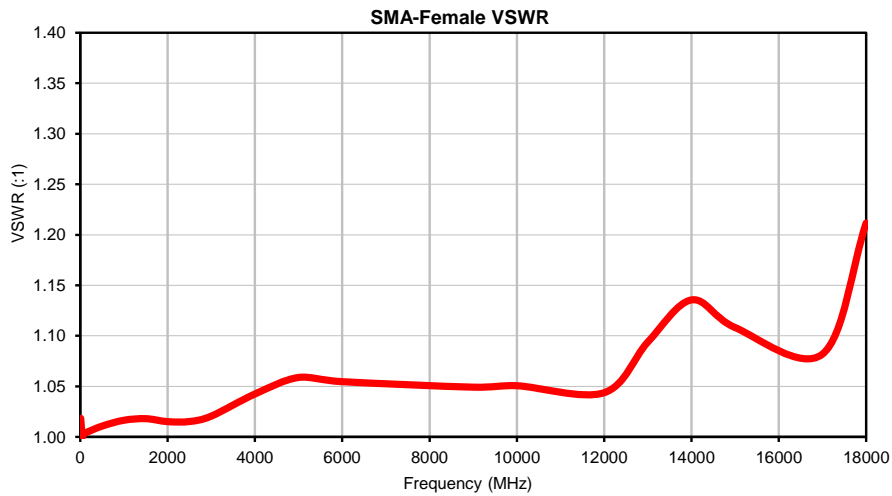
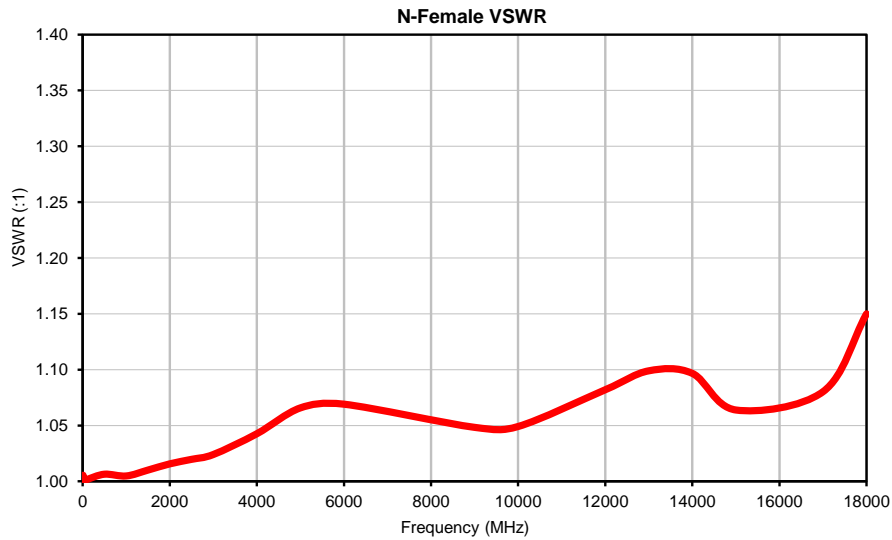
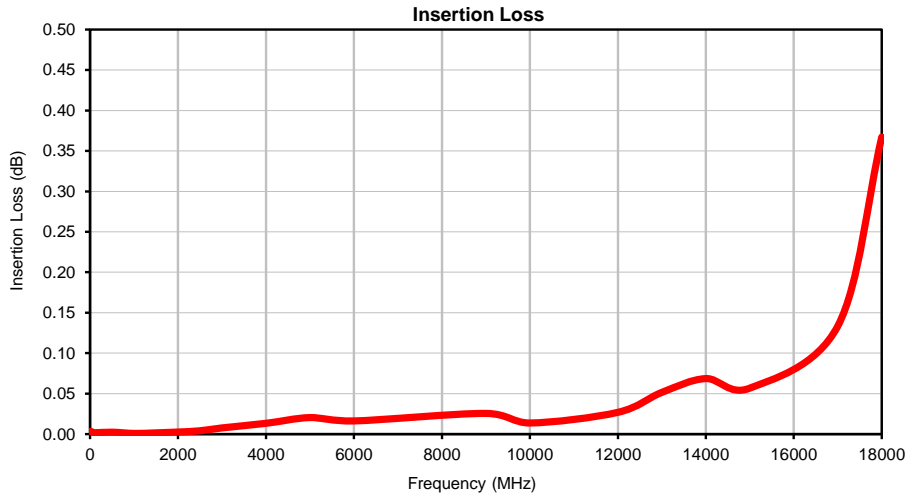


The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: [www.minicircuits.com](http://www.minicircuits.com)

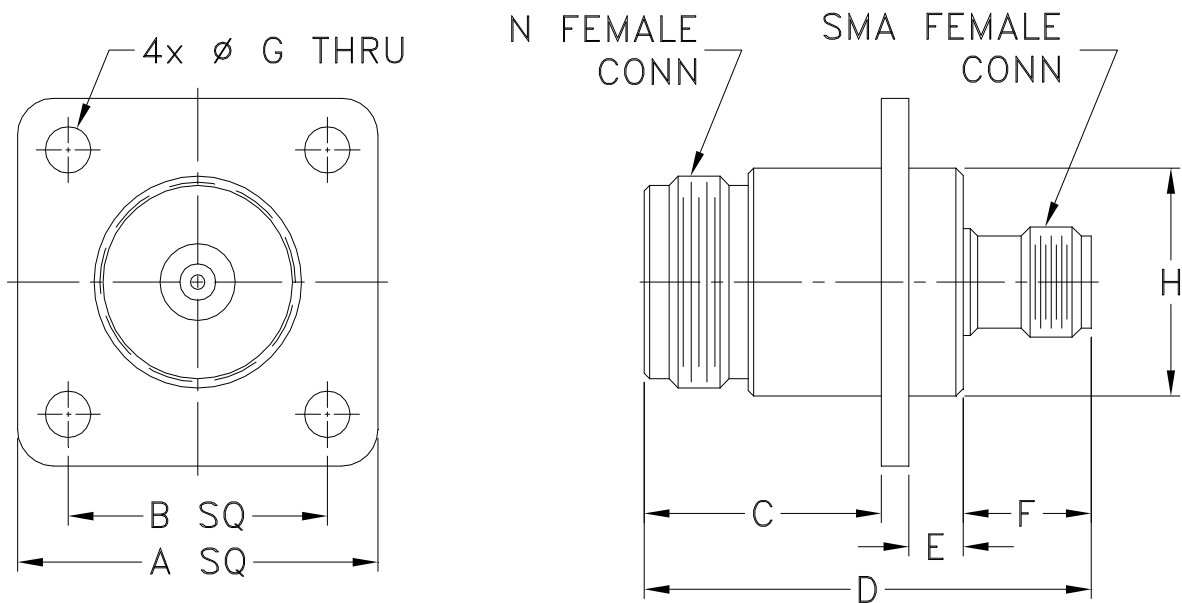
IF/RF MICROWAVE COMPONENTS

REV. A  
NFFL-SF50+  
8/9/2018  
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## Typical Performance Curves



### Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	WT. GRAM
DJ1808	1.00 (25.4)	.718 (18.24)	.657 (16.7)	1.240 (31.5)	.157 (4.0)	.350 (8.9)	.126 (3.2)	.620 (15.75)	36.0

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .03; 3Pl. + .015

#### Notes:

1. Case material: Brass.
2. Finish: Nickel plate.

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-45° to 100° C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Thermal Shock	-55° to 100°C, 10 cycles	MIL-STD-202, Method 107, Condition A, except +100°C & 10 cycles