COAXIAL

Adapter

NFFL-SF50+

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

FEATURES

- Flat response
- Excellent VSWR
- Four-hole flange panel mount
- Stainless-steel construction



Generic photo used for illustration purposes only

Model No.	NFFL-SF50+
Case Style	DJ1808
Connectors	N-Type 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[2]

Parameter	Ratings
Operating Temperature	-45 °C to +100 °C
Storage Temperature	-55 °C to +100 °C

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

REV. B
ECO-016681
NFFL-SF50+
MCL NY
260618

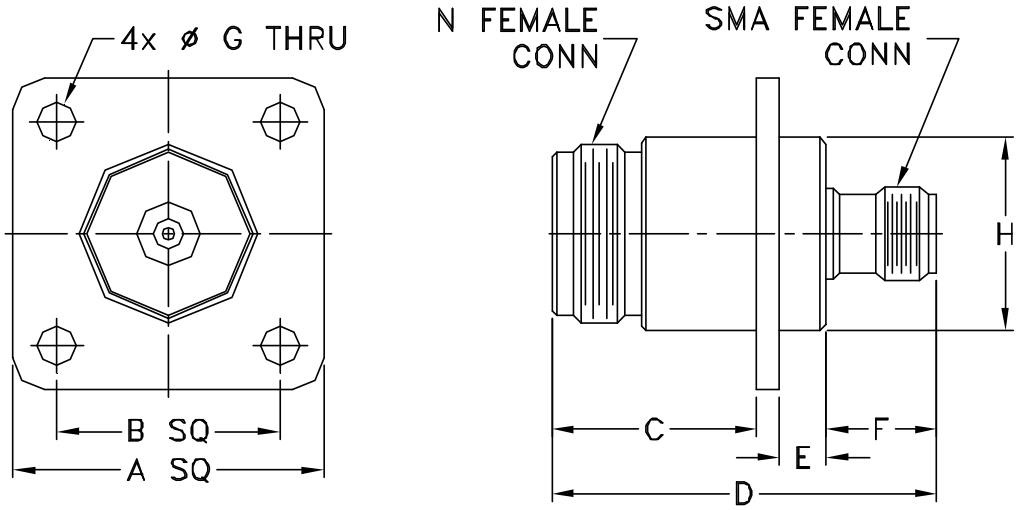
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OUTLINE DRAWING



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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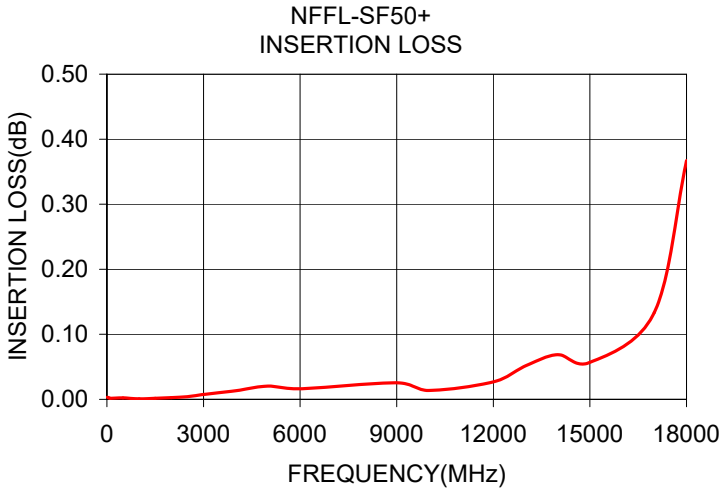
Adapter

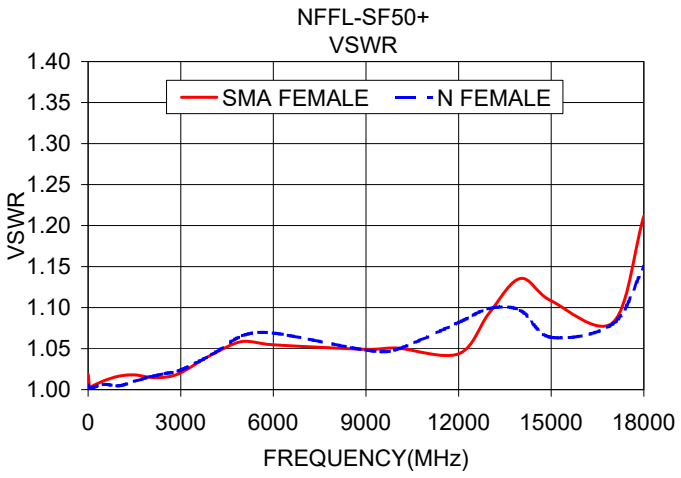
NFFL-SF50+

50Ω DC to 18 GHz N-Type 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





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-Circuits' 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

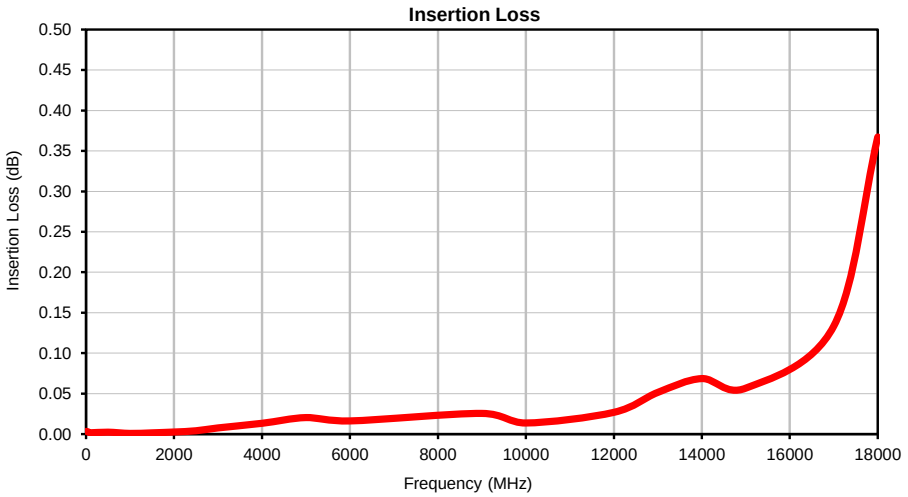
Adapter, N Female to SMA Female NFFL-SF50+

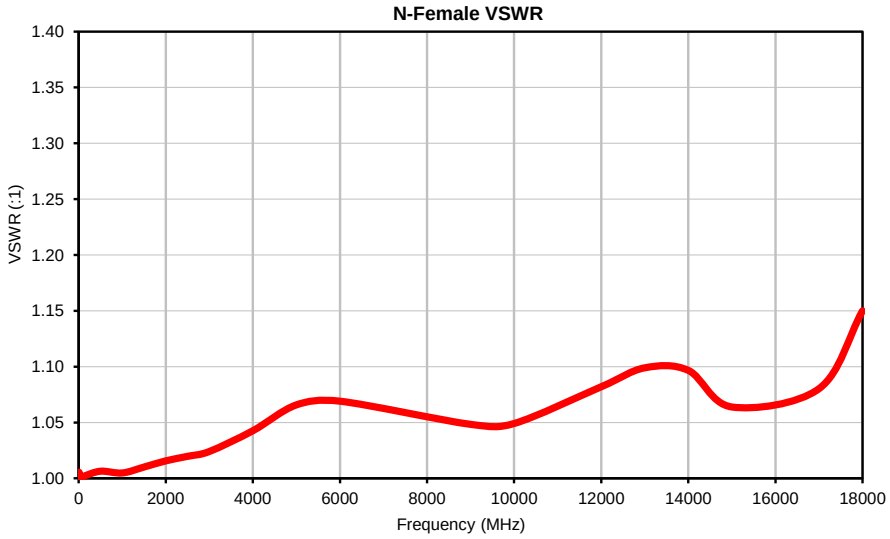
Typical Performance Data

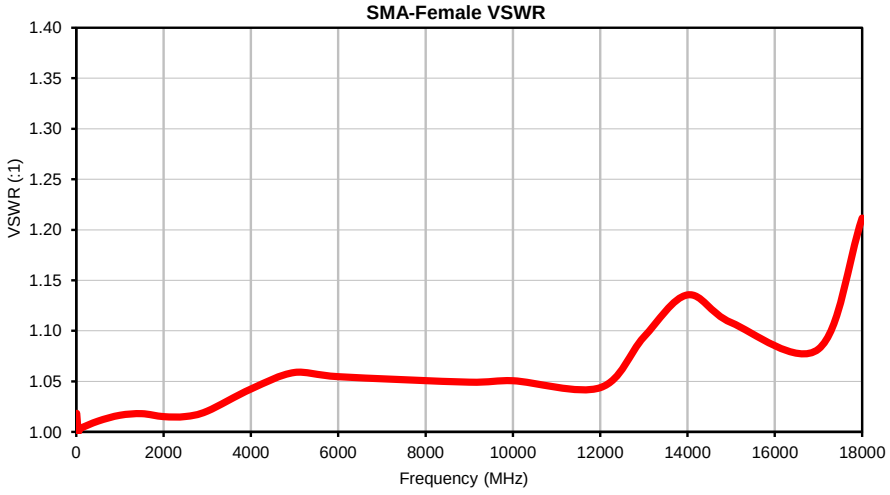
FREQUENCY (MHz)	INSERTION LOSS (dB)	N-FEMALE VSWR (:1)	SMA-FEMALE VSWR (:1)
10	0.003	1.01	1.02
50	0.003	1.00	1.00
100	0.002	1.00	1.00
500	0.002	1.01	1.01
1000	0.001	1.00	1.02
1500	0.002	1.01	1.02
2000	0.003	1.02	1.02
2500	0.004	1.02	1.02
3000	0.008	1.02	1.02
4000	0.013	1.04	1.04
5000	0.020	1.07	1.06
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

Adapter, N Female to SMA Female NFFL-SF50+

Typical Performance Curves



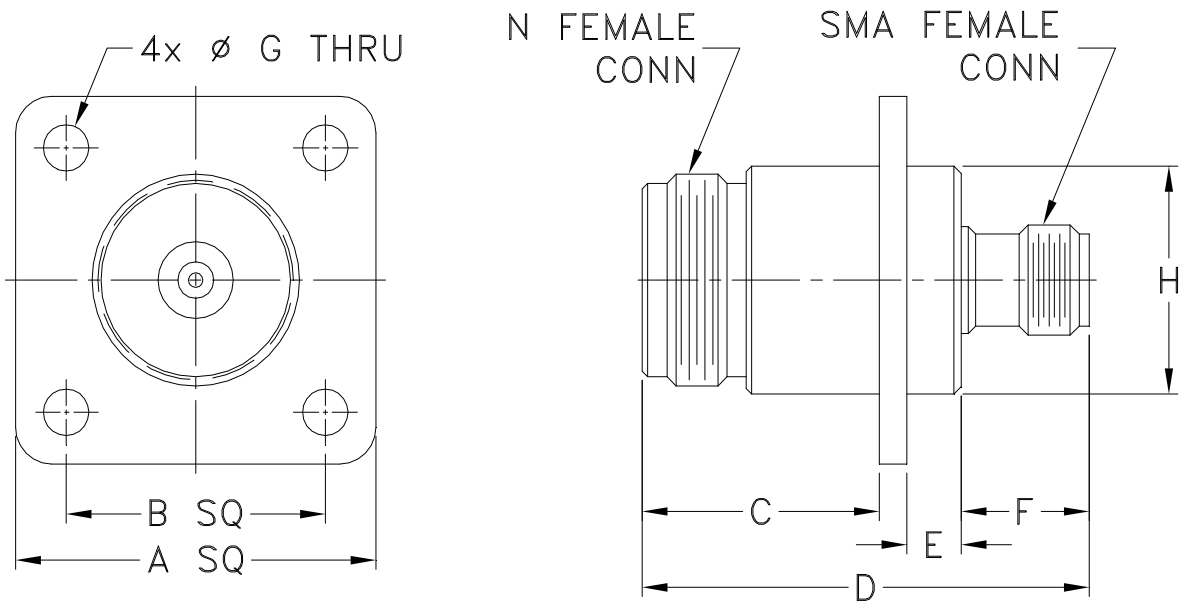




Case Style DJ

DJ1808

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.

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Mini-Circuits

Environmental Specifications ENV69

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

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