

NFFL-SM50+

50Ω DC to 18 GHz N-Female to SMA-Male

THE BIG DEAL

- Ultra-wideband, DC-18 GHz
- Low Insertion Loss, 0.14 dB typ.
- Excellent VSWR, 1.17:1 typ.



Generic photo used for illustration purposes only

Model No.	NFFL-SM50+			
Case Style DJ1808-1				
Connectors	N- Female to SMA- Male			

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

APPLICATIONS

- Interconnection of RF cable and equipment
- Instrumentation

PRODUCT OVERVIEW

Mini-Circuits' NFFL-SM50+ is a N-Female to SMA-Male adapter supporting a wide range of applications from DC to 18 GHz. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The NFFL-SM50+ features tri-metal plated brass housing and Gold-plated beryllium copper construction center contact.

KEY FEATURES

Feature	Advantages
Wideband, DC to 18 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Excellent VSWR • 1.17:1 typ.	Provides good matching for 50 Ω systems and minimizes signal reflections across wide frequency range.
Low Insertion Loss • 0.14 dB typ.	Provides excellent signal power transmission from input to output.
Tri-metal plated brass housing and Gold- plated beryllium copper center contact	Stands up to wear and tear in demanding environments and provides excellent reliability.
Very wide operating temperature range, • -45 to +100 °C	Withstands extreme operating conditions and is suitable for use near high power componentry where heat rise is common.

REV. A ECO-016681 NFFL-SM50+ MCL NY 230130



COAXIAL Adapter



Mini-Circuits

50Ω

DC to 18 GHz N-Female to SMA-Male

ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition (GHz)	Min.	Тур.	Max.	Units
Frequency Range		DC		18	GHz
Insertion Loss	DC - 18	—	0.05	-	dB
	DC - 8	—	1.05	1.30	
VSWR	8 - 12	_	1.19	1.30	:1
	12 - 18	_	1.17	1.30	

ABSOLUTE MAXIMUM RATINGS

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

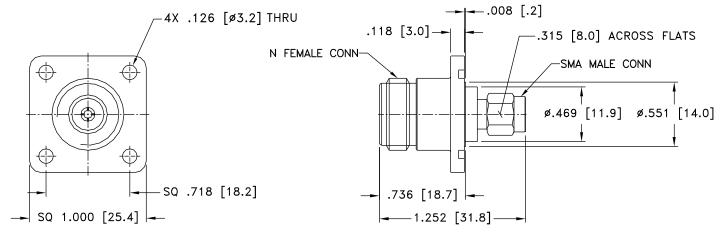
Permanent damage may occur if any of these limits are exceeded.



NFFL-SM50+

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

OUTLINE DRAWING



Weight: 36 gram. Dimensions are in inches [mm]



COAXIAL Adapter

NFFL-SM50+

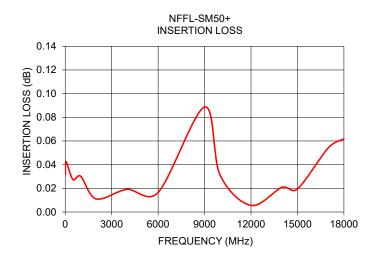
Mini-Circuits

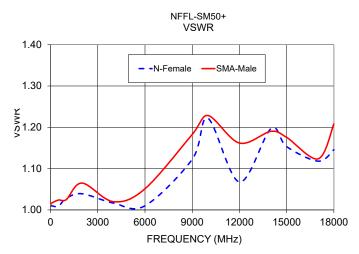
50Ω

DC to 18 GHz N-Female to SMA-Male

TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
		N- Female	SMA- Male	
10	0.03	1.01	1.01	
50	0.04	1.01	1.02	
500	0.03	1.01	1.02	
1000	0.03	1.03	1.02	
2000	0.01	1.04	1.06	
4000	0.02	1.02	1.02	
6000	0.02	1.01	1.05	
9000	0.09	1.12	1.18	
10000	0.03	1.22	1.23	
12000	0.01	1.07	1.16	
14000	0.02	1.20	1.19	
15000	0.02	1.15	1.18	
17000	0.05	1.12	1.12	
18000	0.06	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-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 C. 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

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