

Coaxial Adapter, N-F to SMA-M

NF-SM50+

50Ω

DC to 18 GHz



Generic photo used for illustration purposes only

CASE STYLE: DJ826

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

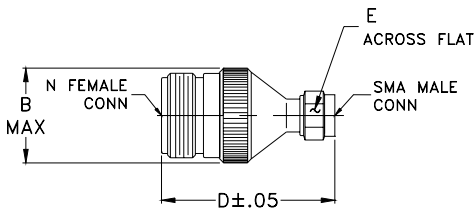
- interconnection of RF cables and equipment

Connectors	Model
Conn1 N-F	Conn2 SMA-M
	Model NF-SM50+

+RoHS Compliant

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

Outline Drawing



Outline Dimensions (inch/mm)

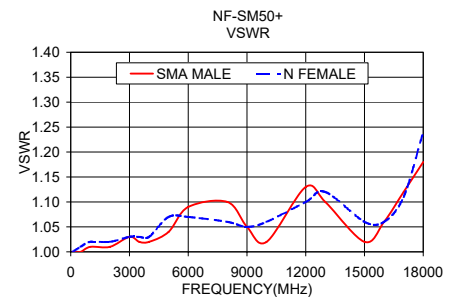
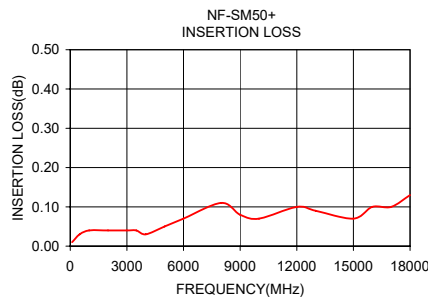
A	B	C	D	E	wt
--	.70	--	1.28	.312	grams
--	17.78	--	32.51	7.92	27.4

Electrical Specifications T_{AMB}=25°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	1.20	1.25

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		N-F	SMA-M
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	0.03	1.01	1.00
1000.00	0.04	1.02	1.01
2000.00	0.04	1.02	1.01
3000.00	0.04	1.03	1.03
3500.00	0.04	1.03	1.02
4000.00	0.03	1.03	1.02
5000.00	0.05	1.07	1.04
6000.00	0.07	1.07	1.09
8000.00	0.11	1.06	1.10
9000.00	0.08	1.05	1.05
10000.00	0.07	1.06	1.02
12000.00	0.10	1.10	1.13
13000.00	0.09	1.12	1.10
15000.00	0.07	1.06	1.02
16000.00	0.10	1.06	1.06
17000.00	0.10	1.11	1.12
18000.00	0.13	1.24	1.18



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



Adapter, N-Female to SMA-Male

NF-SM50+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	N-FEMALE RETURN LOSS (dB)	SMA-MALE RETURN LOSS (dB)
10	0.01	46.06	46.06
50	0.01	46.06	46.06
100	0.01	46.06	46.06
500	0.03	46.06	46.06
1000	0.04	40.09	46.06
2000	0.04	40.09	46.06
3000	0.04	36.61	36.61
3500	0.04	36.61	40.09
4000	0.03	36.61	40.09
5000	0.05	29.42	34.15
6000	0.07	29.42	27.32
8000	0.11	30.71	26.44
9000	0.08	32.26	32.26
10000	0.07	30.71	40.09
12000	0.10	26.44	24.29
13000	0.09	24.94	26.44
15000	0.07	30.71	40.09
16000	0.10	30.71	30.71
17000	0.10	25.66	24.94
18000	0.13	19.40	21.66

REV. X1
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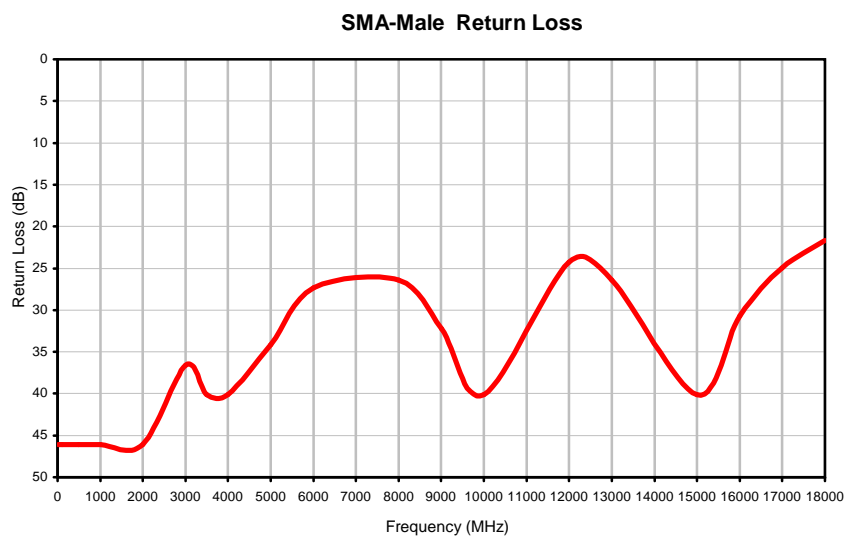
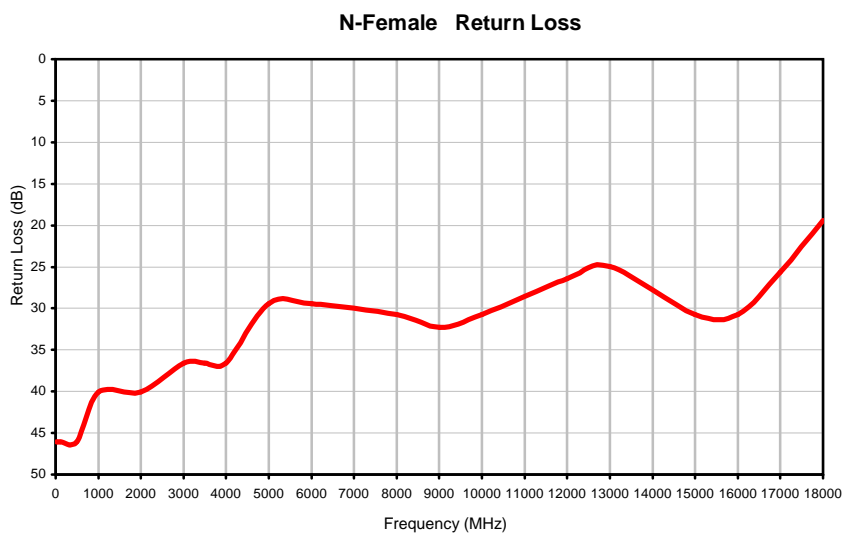
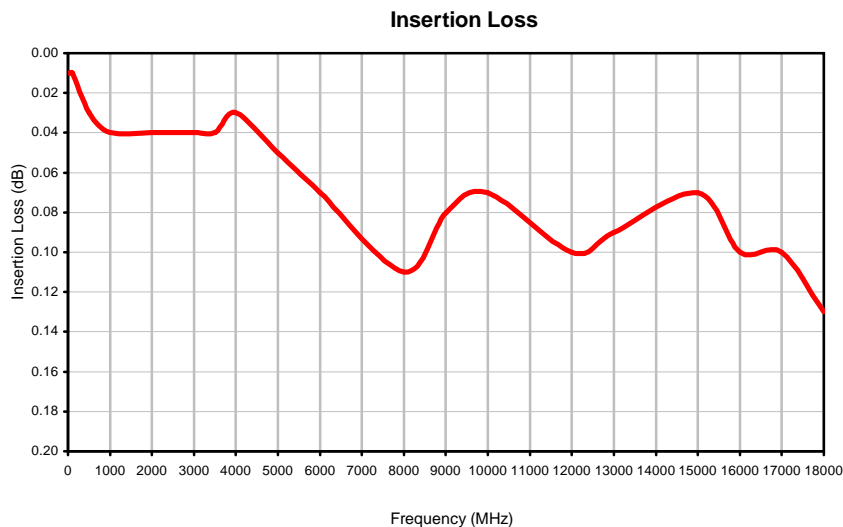
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



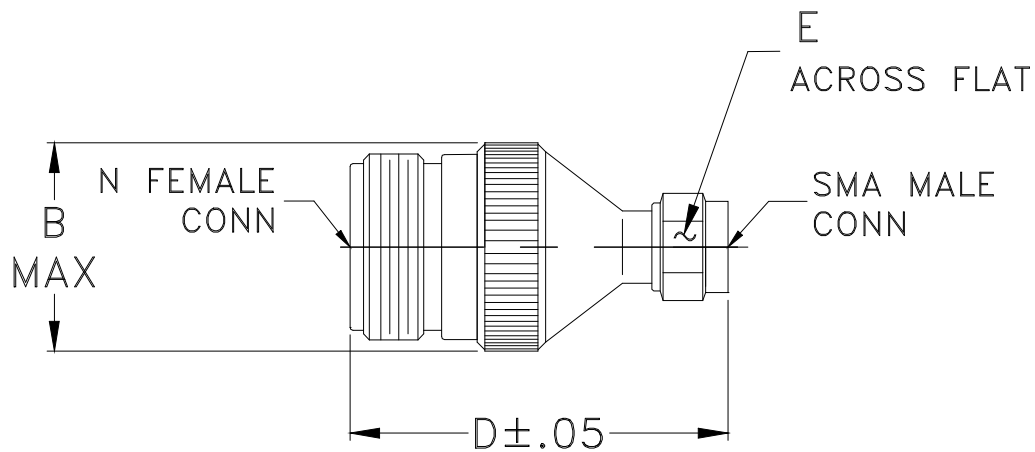
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	WT. GRAM
DJ826	--	.70 (17.78)	--	1.28 (32.51)	.312 (7.92)	27.4

Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Note:

1. Case Material: Stainless steel.
2. Finish: Passivation.



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	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I