COAXIAL

Adapter

NF-NF50+

50Ω DC to 6 GHz N-Type Female to N-Type Female

FEATURES

- Excellent VSWR, 1.05:1 typ.
- Low Insertion Loss, 0.05 dB typ.
- Tri-metal finish



Generic photo used for illustration purposes only

Model No.	NF-NF50+
Case Style	DJ1092
Connectors	N-Type Female to N-Type Female

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

APPLICATIONS

- Interconnection of RF Cables and Equipment
- Connector Saver

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		6	GHz
Insertion Loss	DC - 6	—	0.05	0.10	dB
VSWR	DC - 2	—	—	1.10	:1
	DC - 4	—	—	1.20	
	DC - 6	—	—	1.20	

ABSOLUTE MAXIMUM RATINGS[1]

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

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

REV. C
ECO-012138
NF-NF50+
MCL NY
260618

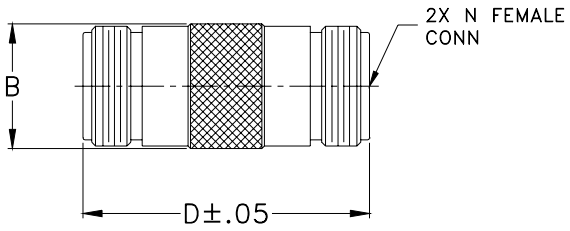
COAXIAL

Adapter

NF-NF50+

50Ω DC to 6 GHz N-Type Female to N-Type Female

OUTLINE DRAWING

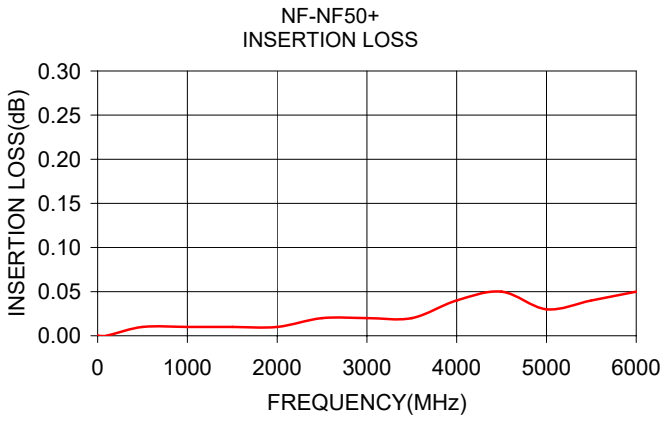


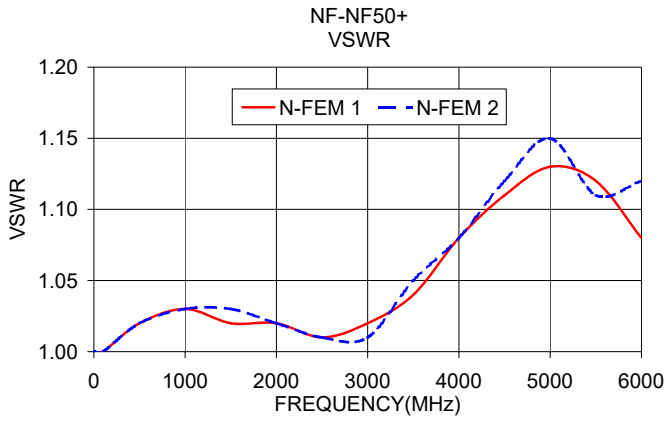
OUTLINE DIMENSIONS (Inches / mm)

A	B	C	D	E	wt
--	.65	--	1.50	--	grams
--	16.5	--	38.00	--	37.2

TYPICAL PERFORMANCE DATA

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		N-Type Female	N-Type Female
0.5	0.00	1.00	1.00
10	0.00	1.00	1.00
100	0.00	1.00	1.00
500	0.01	1.02	1.02
1000	0.01	1.03	1.03
1500	0.01	1.02	1.03
2000	0.01	1.02	1.02
2500	0.02	1.01	1.01
3000	0.02	1.02	1.01
3500	0.02	1.04	1.05
4000	0.04	1.08	1.08
4500	0.05	1.11	1.12
5000	0.03	1.13	1.15
5500	0.04	1.12	1.11
6000	0.05	1.08	1.12





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 N-Female NF-NF50+

Typical Performance Data

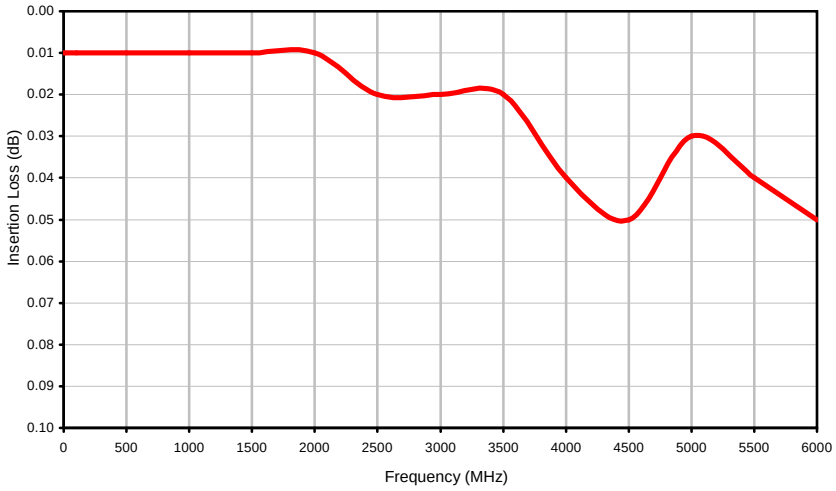
FREQUENCY (MHz)	INSERTION LOSS (dB)	N-FEMALE 1 RETURN LOSS (dB)	N-FEMALE 2 RETURN LOSS (dB)
0.5	0.01	46.06	46.06
10	0.01	46.06	46.06
100	0.01	46.06	46.06
500	0.01	40.09	40.09
1000	0.01	36.61	36.61
1500	0.01	40.09	36.61
2000	0.01	40.09	40.09
2500	0.02	46.06	46.06
3000	0.02	40.09	46.06
3500	0.02	34.15	32.26
4000	0.04	28.30	28.30
4500	0.05	25.66	24.94
5000	0.03	24.29	23.13
5500	0.04	24.94	25.66
6000	0.05	28.30	24.94

Mini-Circuits®
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 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 minicircuits.com

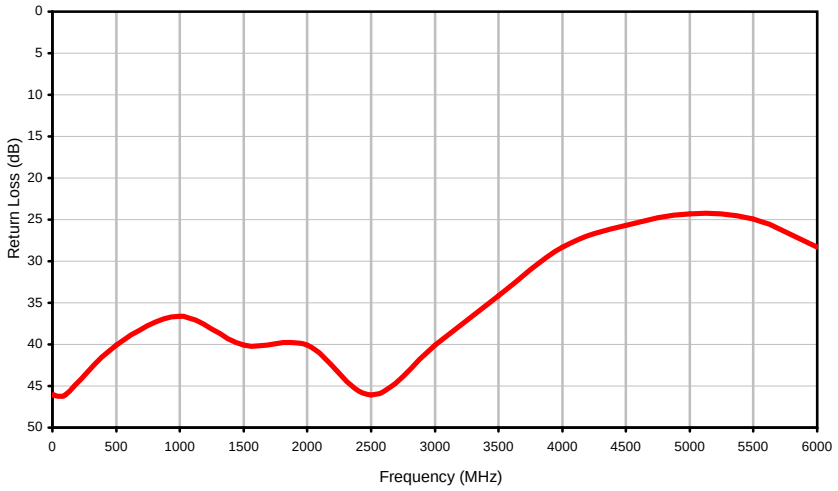
Adapter, N-Female to N-Female NF-NF50+

Typical Performance Curves

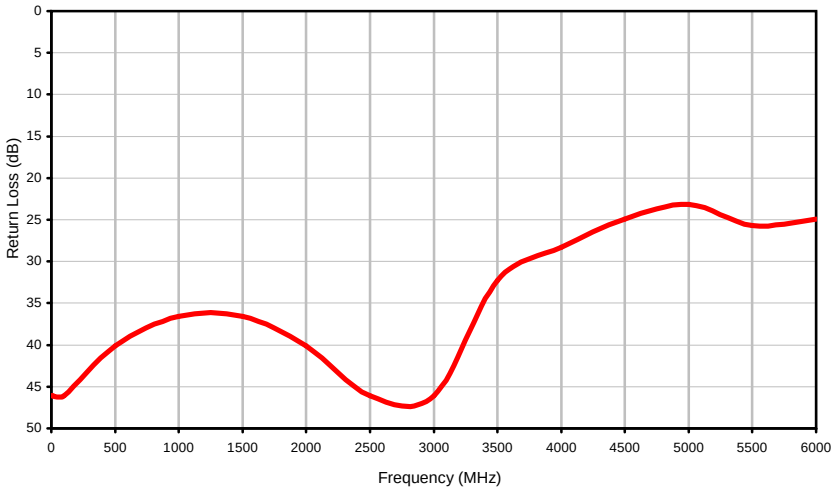
Insertion Loss



N-Female 1 Return Loss



N-Female 2 Return Loss

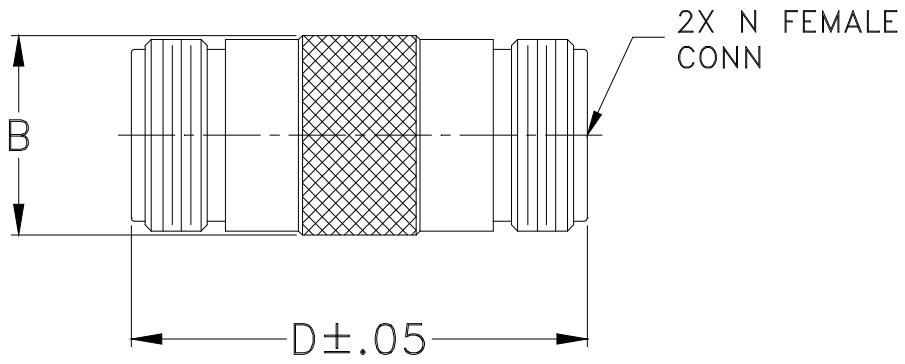


Mini-Circuits®
IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see minicircuits.com

Case Style DJ

DJ1092

Outline Dimensions



CASE#	A	B	C	D	E	WT. GRAM
DJ1092	-- --	.65 (16.5)	-- --	1.50 (38.10)	-- --	37.2

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

Notes:

1. Case material: Brass
2. Finish: Tri-metal (Cu-Sn-Zn) plate.

Mini-Circuits®
ISO 9001 ISO 14001 CERTIFIED
ALL NEW minicircuits.com
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
RF/IF MICROWAVE COMPONENTS

This document and its contents are the property of Mini-Circuits

Mini-Circuits

Environmental Specifications ENV28

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

This document and its contents are the property of Mini-Circuits.