



KEY FEATURES

- Quick-Connect/Disconnect Mating
- Low Insertion Loss, 0.07 dB Typ.
- Excellent VSWR, 1.05:1 Typ.
- Straight Body



Generic photo used for illustration purposes only

PRODUCT OVERVIEW

Mini-Circuits' NF-MQK50+ is a coaxial N-Female to N-Male Quick Connect adapter supporting a wide range of applications from DC to 12.4 GHz. This model provides excellent VSWR and low insertion loss versus frequency. The NF-MQK50+ features tri-metal finish construction and measures only 1.58" in length.

ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	—	DC	—	12.4	GHz
Insertion Loss	DC-6	—	0.06	0.2	dB
	6-12.4	—	0.08	0.2	
VSWR	DC-6	—	1.03	1.15	:1
	6-12.4	—	1.08	1.20	

1. Specifications are tested to minimum frequency of 0.01 GHz.

ABSOLUTE MAXIMUM RATINGS²

Operating Case Temperature	-40 °C to +80 °C
Storage Temperature	-40 °C to +80 °C

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



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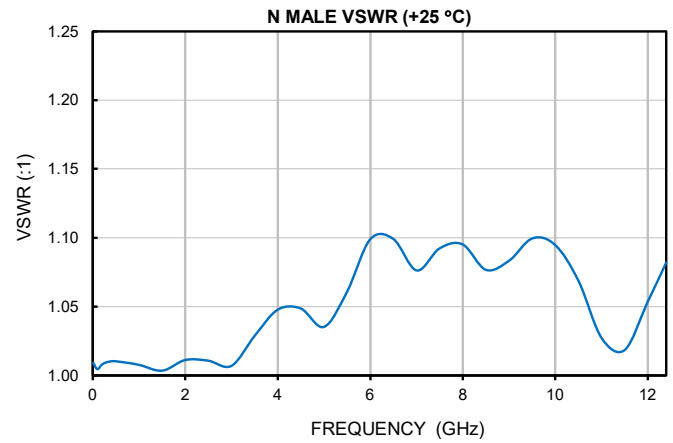
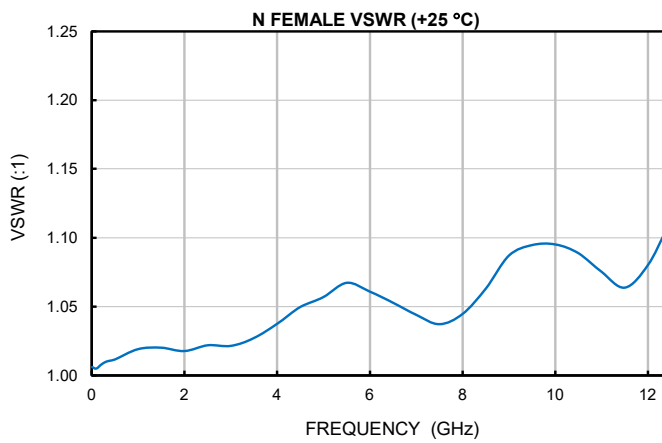
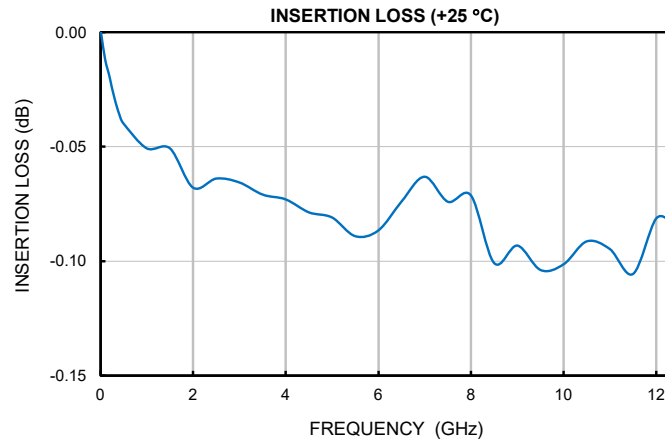
COAXIAL

Adapter

NF-MQK50+

50 Ω DC to 12.4 GHz N-Female to N-Male

TYPICAL PERFORMANCE GRAPHS





COAXIAL

Adapter

NF-MQK50+

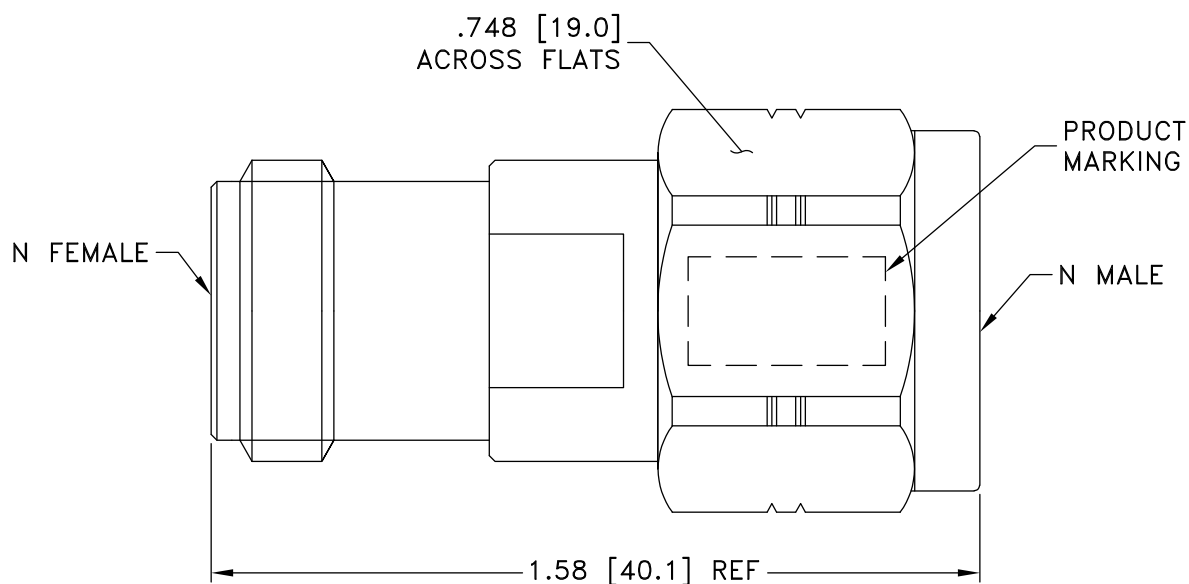
Mini-Circuits

50Ω DC to 12.4 GHz N-Female to N-Male

CONNECTOR SPECIFICATIONS

Description	Connector 1	Connector 2
Connector Type	N-Female	N-Male
Orientation	Straight	Straight

CASE STYLE DRAWING



Weight: 52 grams MAX

Dimensions are in inches [mm]. Tolerances: 2 Pl. ± 0.03 ; 3 Pl. ± 0.015 Inches

PRODUCT MARKING*: NF-MQK50+

*Marking may contain other features or characters for internal lot control.





ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

CLICK HERE

Performance Data & Graphs	Data
	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	DJ1028-3
RoHS Status	Compliant
Environmental Ratings	ENV155

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/terms/viewterm.html

Adapter, N-Female Quick-Connect to N-Male**NF-MQK50+***Typical Performance Data*

FREQ.	INSERTION LOSS	N-FEMALE VSWR	N-MALE VSWR
(GHz)	(dB)	(:1)	(:1)
0.01	0.00	1.01	1.01
0.10	0.01	1.00	1.00
0.20	0.02	1.01	1.01
0.30	0.03	1.01	1.01
0.40	0.04	1.01	1.01
0.50	0.04	1.01	1.01
1.00	0.05	1.02	1.01
1.50	0.05	1.02	1.00
2.00	0.07	1.02	1.01
2.50	0.06	1.02	1.01
3.00	0.07	1.02	1.01
3.50	0.07	1.03	1.03
4.00	0.07	1.04	1.05
4.50	0.08	1.05	1.05
5.00	0.08	1.06	1.04
5.50	0.09	1.07	1.06
6.00	0.09	1.06	1.10
6.50	0.07	1.05	1.10
7.00	0.06	1.04	1.08
7.50	0.07	1.04	1.09
8.00	0.07	1.04	1.10
8.50	0.10	1.06	1.08
9.00	0.09	1.09	1.08
9.50	0.10	1.09	1.10
10.00	0.10	1.10	1.09
10.50	0.09	1.09	1.07
11.00	0.09	1.08	1.03
11.50	0.11	1.06	1.02
12.00	0.08	1.08	1.05
12.40	0.08	1.11	1.08

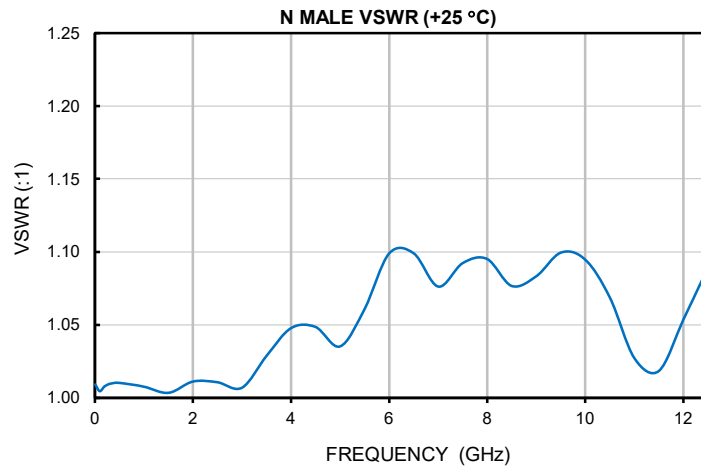
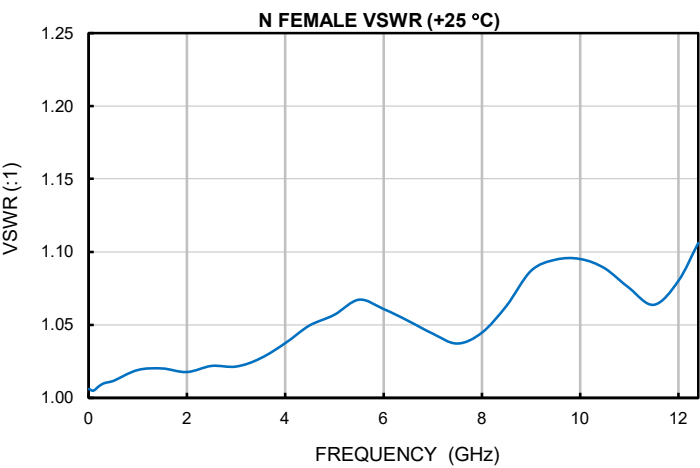
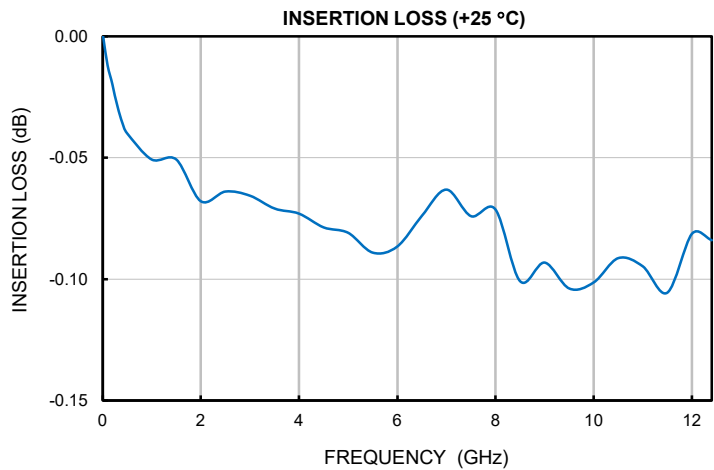


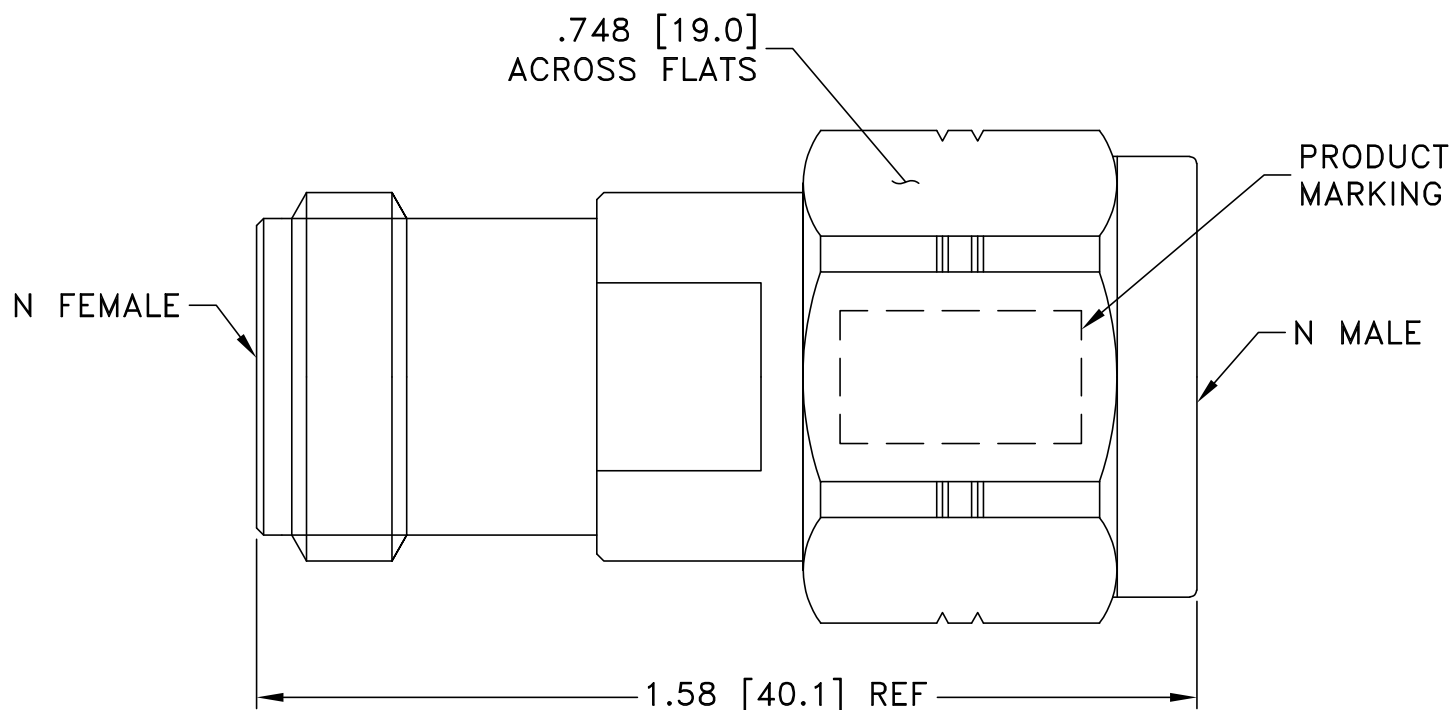
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. OR
NF-MQK50+
10/21/2025
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Typical Performance Curves





Weight: 52 grams MAX

Dimensions are in inches [mm]. Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$ Inches

Notes:

Case material: Brass.
Finish: Tri Metal Alloy Plating.

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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS





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	-40° to +85° C	Individual Model Data Sheet
Storage Temperature	-40° to +85° C	Individual Model Data Sheet
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12