

Coaxial

# Adapter 2.4mm NMD-M to 2.92 mm-F

**KF-24MNMD+**

50Ω DC to 40 GHz

## The Big Deal

- Ultra-wideband, DC-40 GHz
- Flat response
- Low insertion loss, 0.06 dB typ.
- Excellent VSWR, 1.06:1 typ.



CASE STYLE: DJ2931

## Product Overview

Mini-Circuits' KF-24MNMD+ is a coaxial 2.44 mm NMD-M to 2.92 mm-F adapter supporting a wide range of applications from DC to 40 GHz. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The KF-24MNMD+ features passivated stainless steel construction and measures only 0.807" (l).

## Key Features

Feature	Advantages
Wideband, DC to 40 GHz	Wide frequency range provides application flexibility and makes this model ideal for broad-band and multi-band use.
Excellent VSWR, 1.06:1 typ.	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low insertion loss, 0.06 dB typ.	Provides excellent signal power transmission from input to output.
Passivated stainless steel construction.	Stands up to wear and tear in demanding environments and provides excellent reliability.
Very wide operating temperature range, -55 to +100°C	Withstands extreme operating conditions and is suitable for use near high power components where heat rise is common.

### 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.  
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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



# Coaxial Adapter

## 2.4mm NMD-M to 2.92mm-F

50Ω DC to 40 GHz

# KF-24MNMD+



Generic photo used for illustration purposes only

CASE STYLE: DJ2931

### 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, 1.06:1 typ. up to 40 GHz
- low cost adapters, available from stock
- stainless steel body, passivated

### Applications

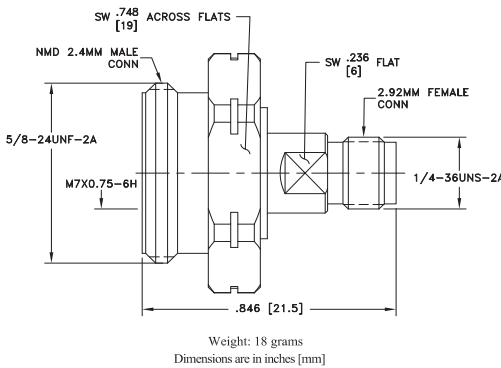
- interconnection of RF cable and equipment

Connectors	Model
2.4mm NMD-M to 2.92mm-F	KF-24MNMD+

**+RoHS Compliant**

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

### Outline Drawing

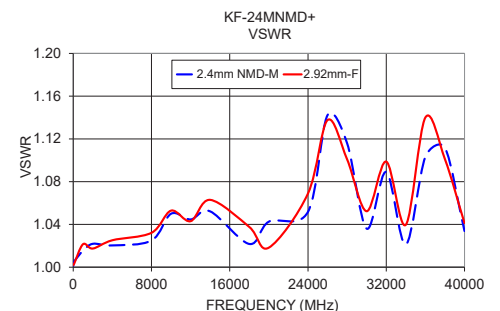
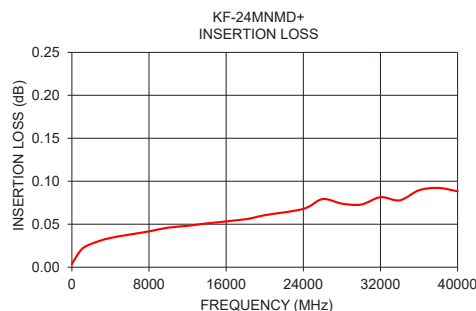


### Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		40	GHz
Insertion Loss	DC - 40	—	0.06	—	dB
VSWR	DC - 40	—	1.06	1.2	:1

### Typical Performance Data

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)	
		2.4 mm NMD-M	2.92 mm-F
10	0.00	1.00	1.00
100	0.01	1.01	1.00
1000	0.02	1.02	1.02
2000	0.03	1.02	1.02
4000	0.03	1.02	1.03
8000	0.04	1.02	1.03
12000	0.05	1.04	1.04
14000	0.05	1.05	1.06
18000	0.06	1.02	1.04
20000	0.06	1.04	1.02
24000	0.07	1.05	1.07
26000	0.08	1.14	1.14
28000	0.07	1.12	1.10
30000	0.07	1.04	1.05
32000	0.08	1.09	1.10
36000	0.09	1.10	1.14
38000	0.09	1.11	1.10
40000	0.09	1.03	1.04



### 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/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)



[www.minicircuits.com](http://www.minicircuits.com) P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

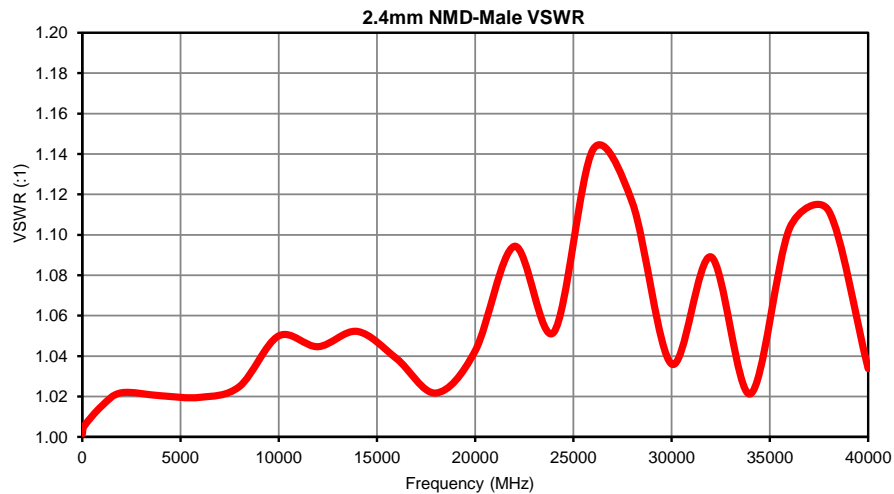
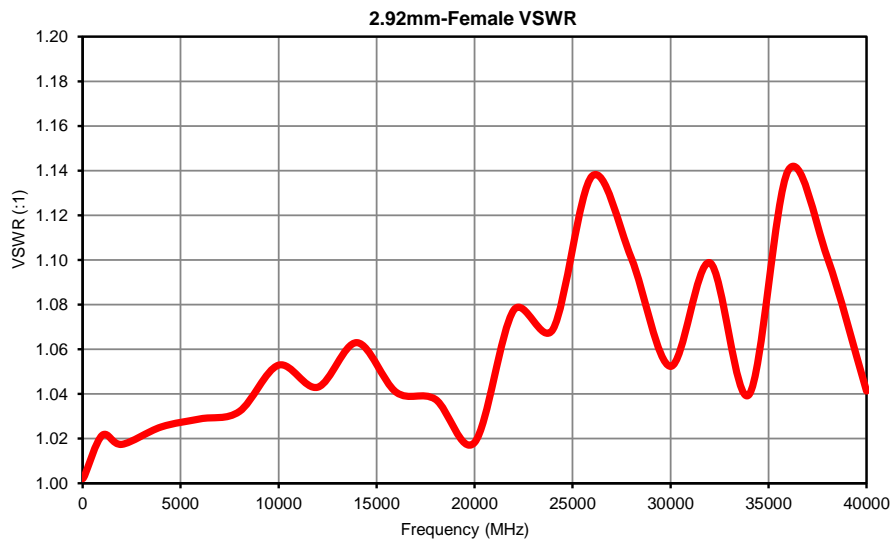
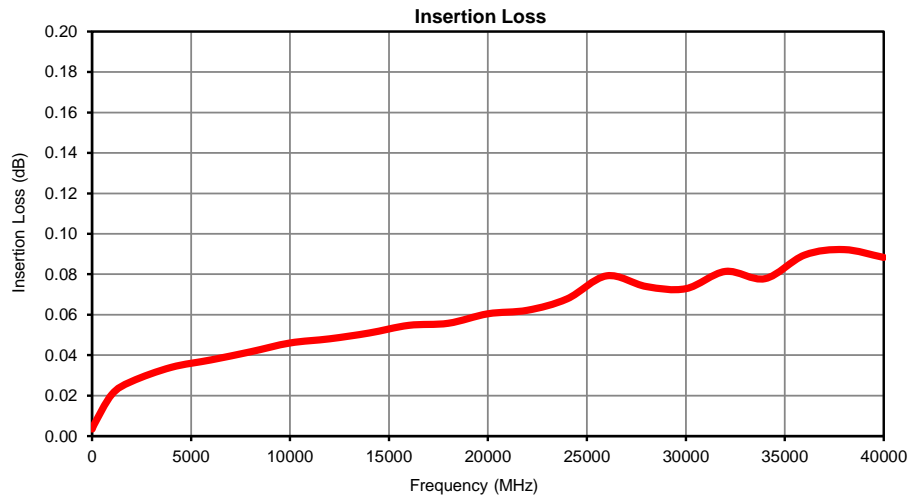
REV. OR  
 M176040  
 KF-24MNMD+  
 BK/RS/CP  
 190821  
 Page 2 of 2

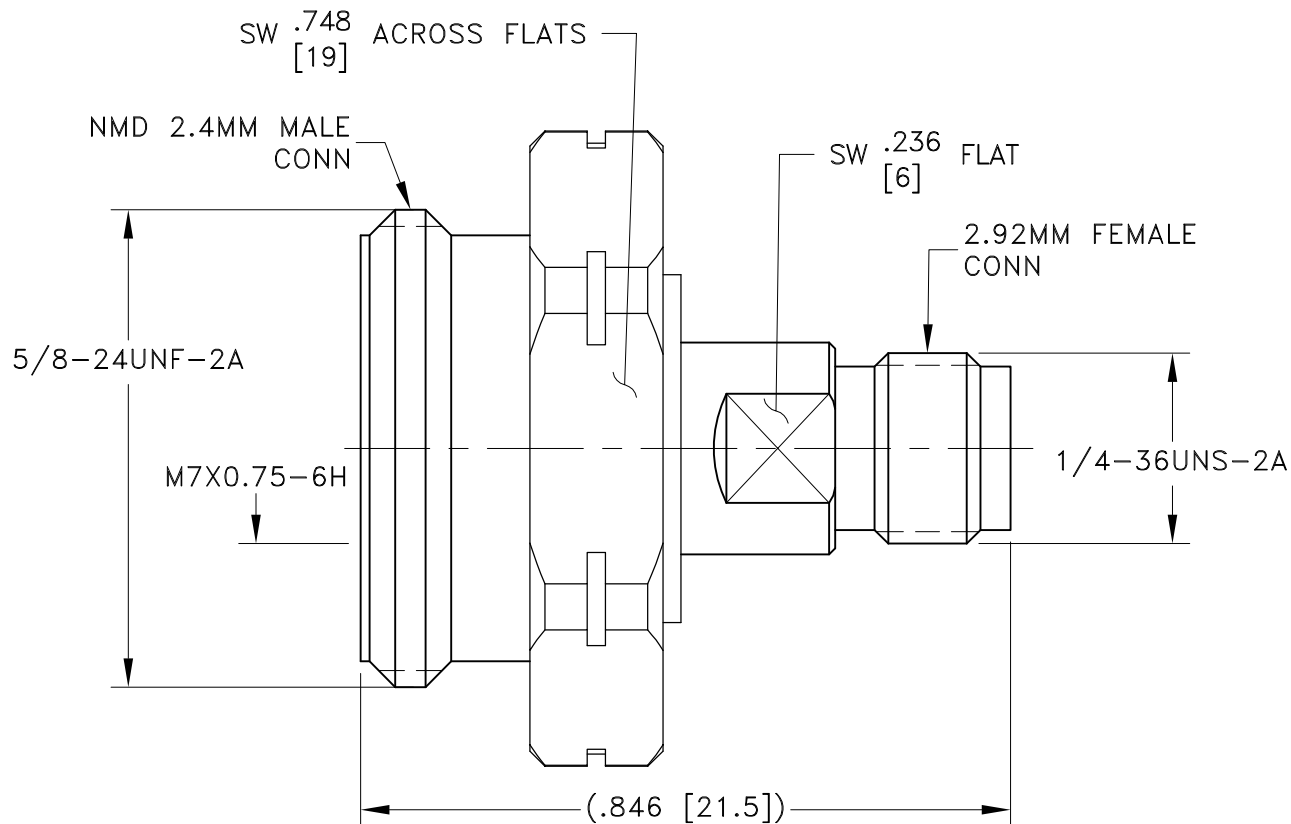
## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	2.92mm-FEMALE VSWR (:1)	2.4mm NMD-MALE VSWR (:1)
10	0.00	1.00	1.00
100	0.01	1.00	1.01
1000	0.02	1.02	1.02
2000	0.03	1.02	1.02
4000	0.03	1.03	1.02
6000	0.04	1.03	1.02
8000	0.04	1.03	1.02
10000	0.05	1.05	1.05
12000	0.05	1.04	1.04
14000	0.05	1.06	1.05
16000	0.05	1.04	1.04
18000	0.06	1.04	1.02
20000	0.06	1.02	1.04
22000	0.06	1.08	1.09
24000	0.07	1.07	1.05
26000	0.08	1.14	1.14
28000	0.07	1.10	1.12
30000	0.07	1.05	1.04
32000	0.08	1.10	1.09
34000	0.08	1.04	1.02
36000	0.09	1.14	1.10
38000	0.09	1.10	1.11
40000	0.09	1.04	1.03

# Adapter, 2.92mm-Female to 2.4mm NMD-Male **KF-24MNMD+**

## Typical Performance Curves





Weight: 18 grams

Dimensions are in inches [mm]. Tolerances: 2 Pl.± .03; 3 Pl. ± .015

### Notes:

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

 **Mini-Circuits**<sup>®</sup>  
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](http://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.

<b>Specification</b>	<b>Test/Inspection Condition</b>	<b>Reference/Spec</b>
Operating Temperature	-55° to 100° C or -55° to 85° 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, 100 cycles	MIL-STD-202, Method 107, condition B -3, except over -55° to 100°C
Connector Durability	500 mating/unmating cycles	MIL-PRF-39012E, PARAGRAPH 4.6.12
Drop Test	3' height, 3 times	