



Mini-Circuits

COAXIAL

Adapter

KMNMD-24MNMD+

50Ω DC to 40 GHz 2.92mm NMD-Male to 2.4mm NMD-Male

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Low Insertion Loss, 0.06 dB Typ.
- Excellent VSWR, 1.06:1 Typ.
- Flat response



Generic photo used for illustration purposes only

APPLICATIONS

- Interconnection of RF cable and equipment

Model No.	KMNMD-24MNMD+
Case Style	DJ2931-3
Connectors	2.92 mm Male to 2.4 mm Male

+RoHS Compliant

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

PRODUCT OVERVIEW

Mini-Circuits' KMNMD-24MNMD+ is a coaxial 2.92mm NMD-M to 2.4mm-M 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 KMNMD-24MNMD+ features passivated stainless steel construction and measures only 0.886" (l).

KEY FEATURES

Features	Advantages
Wideband, DC to 40 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband 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.
Rugged, 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.





ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (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

ABSOLUTE MAXIMUM RATINGS

Parameter	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.



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KMNMD-24MNMD+

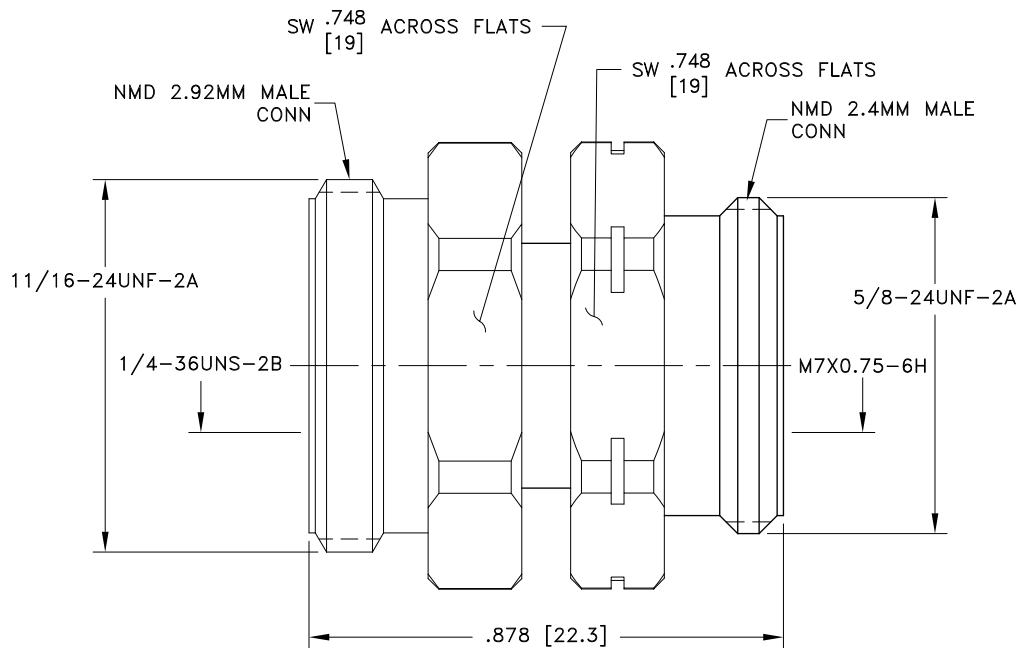
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50Ω DC to 40 GHz 2.92mm NMD-Male to 2.4mm NMD-Male

COAXIAL CONNECTIONS

Connector 1	2.92 mm NMD-Male
Connector 2	2.4 mm NMD-Male

OUTLINE DRAWING



Weight: 34 grams
Dimensions are in inches (mm)





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Adapter

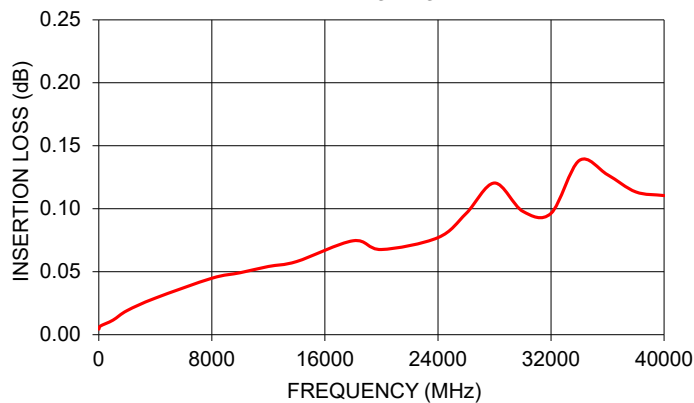
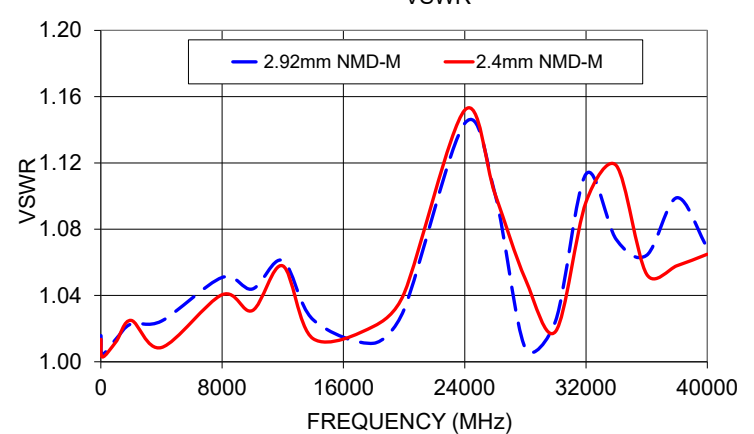
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50Ω DC to 40 GHz 2.92mm NMD-Male to 2.4mm NMD-Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92mm NMD-Male	2.4mm NMD-Male
10	0.004	1.02	1.01
100	0.007	1.00	1.00
1000	0.012	1.01	1.01
2000	0.019	1.02	1.02
8000	0.045	1.05	1.04
10000	0.049	1.04	1.03
12000	0.054	1.06	1.06
14000	0.058	1.03	1.01
18000	0.075	1.01	1.02
20000	0.068	1.03	1.04
24000	0.077	1.14	1.15
26000	0.096	1.10	1.10
28000	0.120	1.01	1.05
30000	0.098	1.02	1.02
32000	0.096	1.11	1.10
34000	0.138	1.07	1.12
38000	0.113	1.10	1.06
40000	0.110	1.07	1.06

KMNMMD-24MNMMD+
INSERTION LOSSKMNMMD-24MNMMD+
VSWR

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/terms/viewterm.html

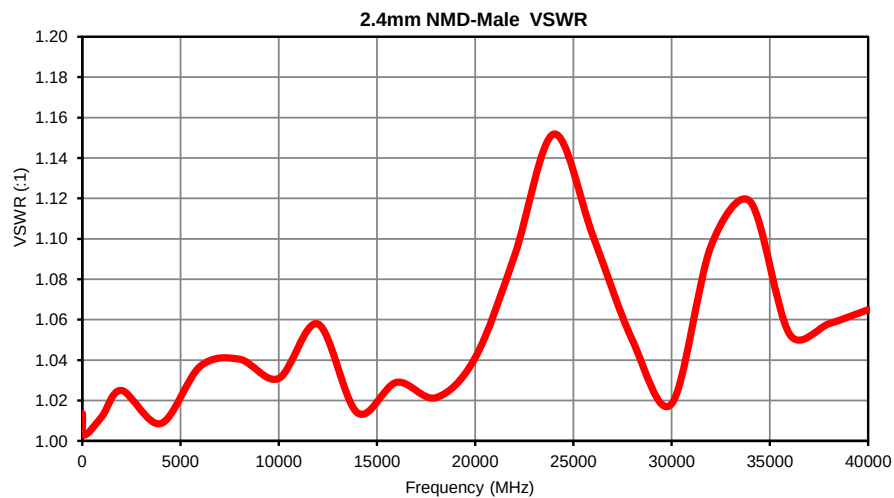
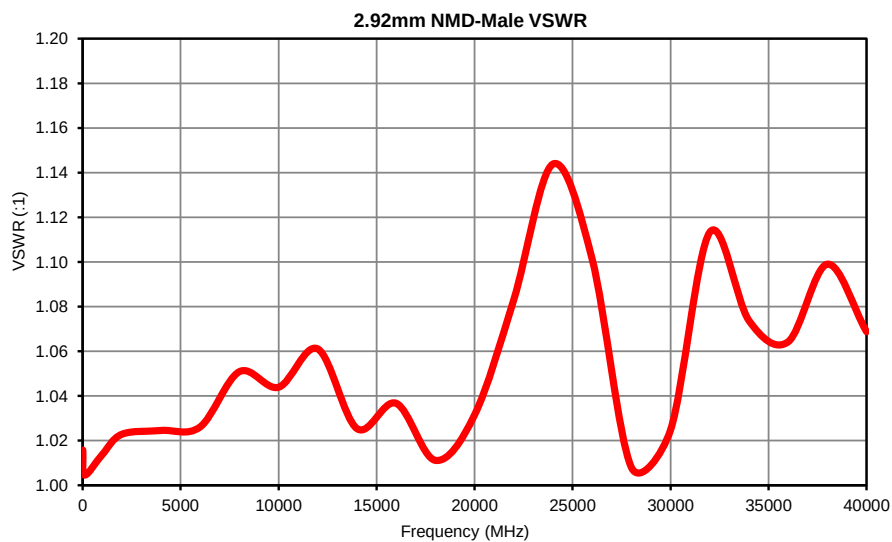
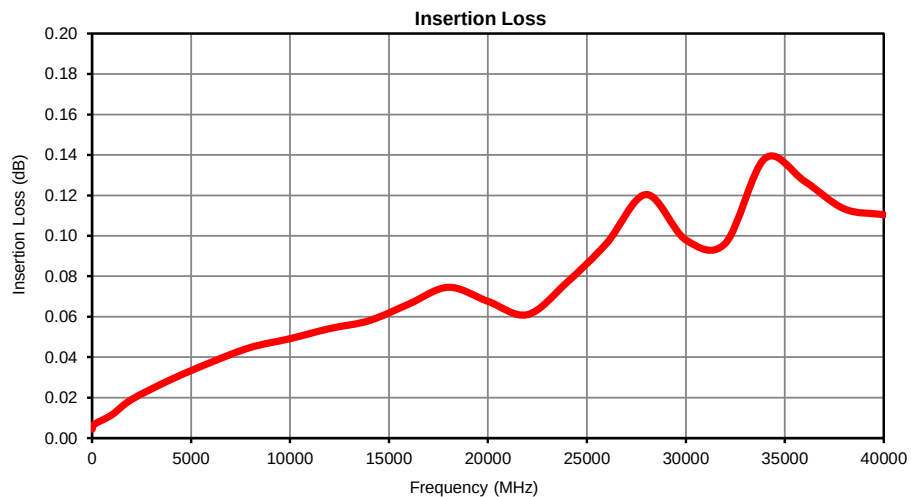


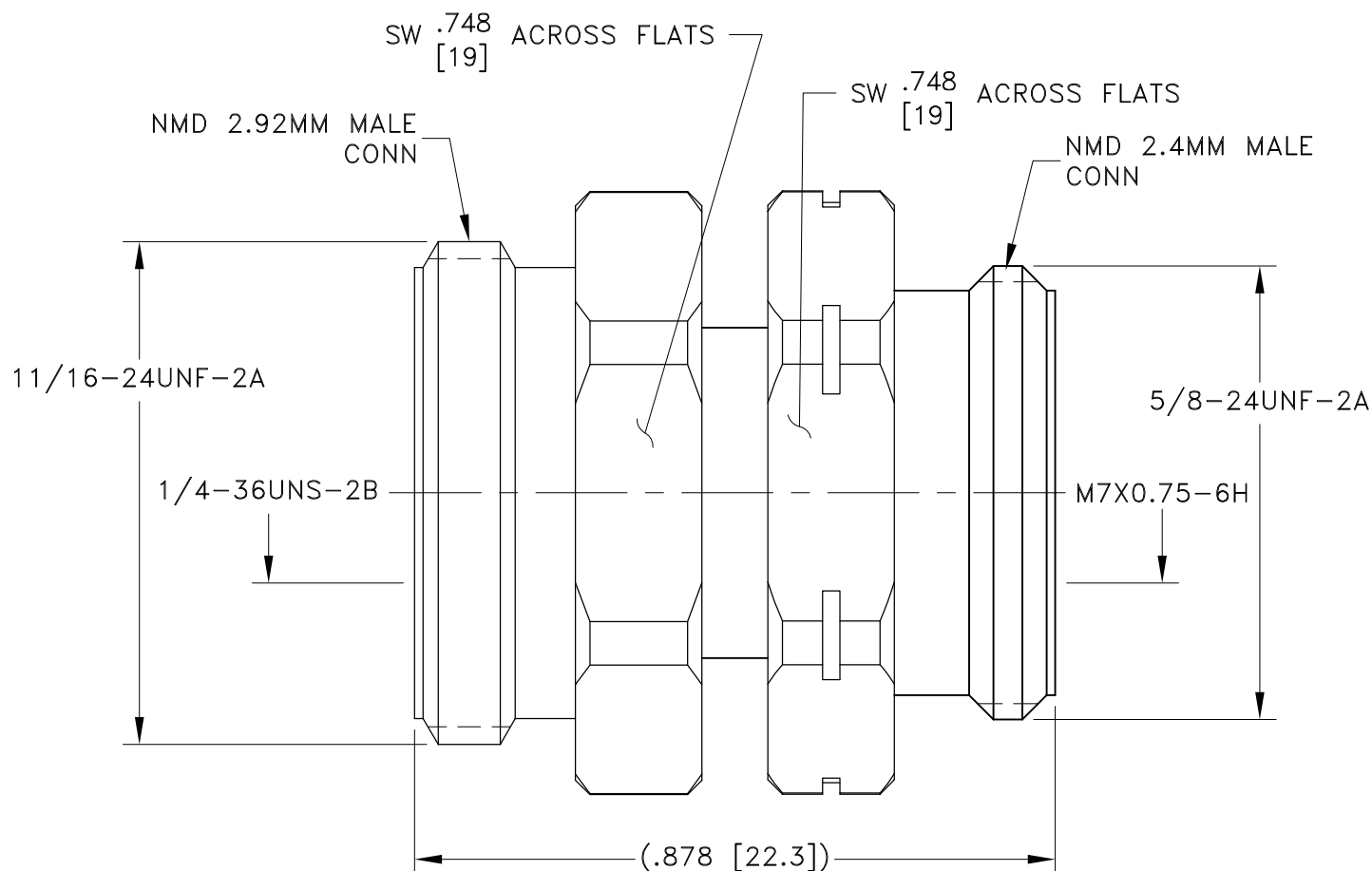
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	2.92mm NMD-MALE VSWR (:1)	2.4mm NMD-MALE VSWR (:1)
10	0.00	1.02	1.01
100	0.01	1.00	1.00
1000	0.01	1.01	1.01
2000	0.02	1.02	1.02
4000	0.03	1.02	1.01
6000	0.04	1.03	1.04
8000	0.04	1.05	1.04
10000	0.05	1.04	1.03
12000	0.05	1.06	1.06
14000	0.06	1.03	1.01
16000	0.07	1.04	1.03
18000	0.07	1.01	1.02
20000	0.07	1.03	1.04
22000	0.06	1.08	1.09
24000	0.08	1.14	1.15
26000	0.10	1.10	1.10
28000	0.12	1.01	1.05
30000	0.10	1.02	1.02
32000	0.10	1.11	1.10
34000	0.14	1.07	1.12
36000	0.13	1.06	1.05
38000	0.11	1.10	1.06
40000	0.11	1.07	1.06

Adapter, 2.92mm NMD-Male to 2.4mm NMD-Male KMNMD-24MNMD+

Typical Performance Curves





Weight: 34 grams

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

Notes:

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



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



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 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	