COAXIAL

Adapter

KMR-24F+

50Ω DC to 40 GHz Right-Angle 2.4 mm Female to 2.92 mm Male

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Low Insertion Loss, 0.16 dB Typ.
- Excellent VSWR, 1.09:1 Typ.
- Flat Response
- Stainless Steel Construction



Generic photo used for illustration purposes only

Model No.	KMR-24F+
Case Style	DJ2442-9
Connectors	Right-Angle 2.4 mm Female to 2.92 mm Male

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

APPLICATIONS

- Interconnection of RF Cable and Equipment

PRODUCT OVERVIEW

Mini-Circuits' KMR-24F+ is a right-angle 2.4 mm female to 2.92 mm male 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 KMR-24F+ features passivated stainless steel construction and gold-plated berillium copper construction center contact.

KEY FEATURES

Features	Advantages
Right-Angle Adapter	Converts 2.4 mm female to 2.92 mm (K-type) male (right angle) in one unit saving space and cost.
Wideband, DC to 40 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Excellent VSWR, 1.09:1 Typ.	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low Insertion Loss, 0.16 dB Typ.	Provides excellent signal power transmission from input to output.
Passivated Stainless Steel Construction and Gold-Plated Berillium Copper Center Contact	Stands up to wear and tear in demanding environments and provides excellent reliability.
Very Wide Operating Temperature Range, -55 °C to +100 °C	Withstands extreme operating conditions and is suitable for use near high power componentry where heat rise is common.

REV. B
ECO-016808
KMR-24F+
MCL NY
260618

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		40	GHz
Insertion Loss	DC-40	-	0.16	0.4	dB
VSWR	DC-40	-	1.09	1.29	:1

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.

Adapter

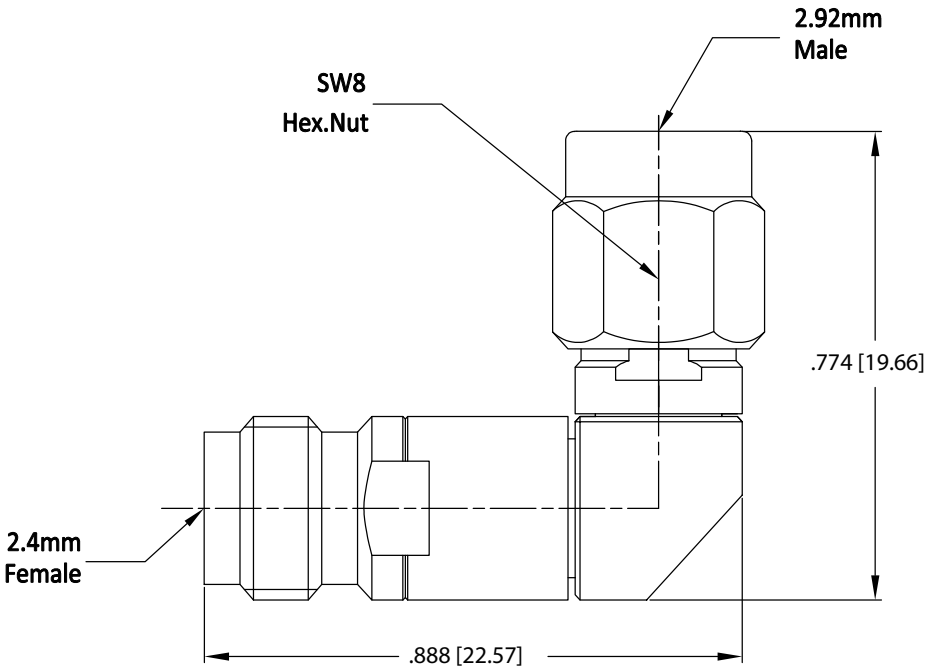
KMR-24F+

50Ω DC to 40 GHz Right-Angle 2.4 mm Female to 2.92 mm Male

COAXIAL CONNECTIONS

Connector 1	2.4 mm female
Connector 2	2.92 mm male

OUTLINE DRAWING



Weight: 6 grams

Dimensions are in inches [mm]

COAXIAL

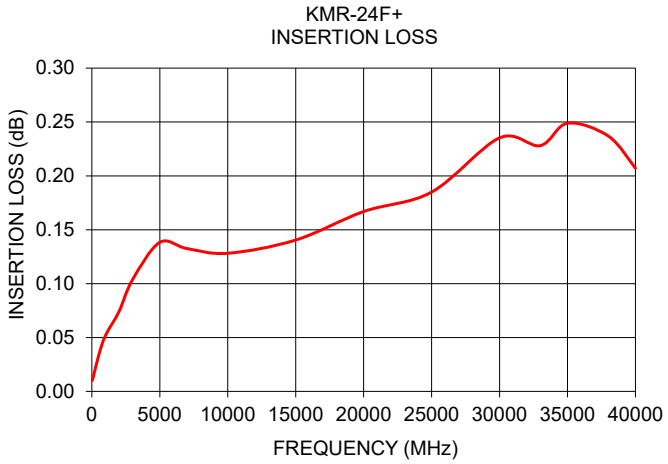
Adapter

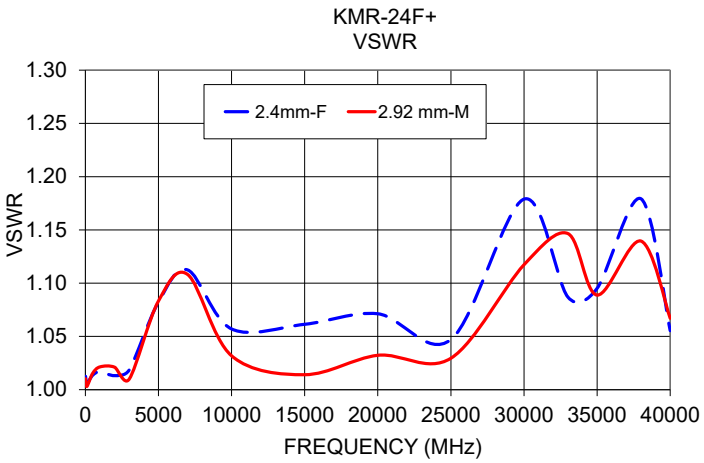
KMR-24F+

50Ω DC to 40 GHz Right-Angle 2.4 mm Female to 2.92 mm Male

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		2.4 mm Female	2.92 mm Male
10	0.01	1.01	1.01
100	0.01	1.01	1.00
500	0.03	1.01	1.02
1000	0.05	1.02	1.02
2000	0.07	1.01	1.02
3000	0.10	1.02	1.01
5000	0.14	1.08	1.08
7000	0.13	1.11	1.11
10000	0.13	1.06	1.03
15000	0.14	1.06	1.01
20000	0.17	1.07	1.03
25000	0.18	1.05	1.03
30000	0.24	1.18	1.12
33000	0.23	1.09	1.15
35000	0.25	1.10	1.09
38000	0.24	1.18	1.14
40000	0.21	1.06	1.07





NOTES

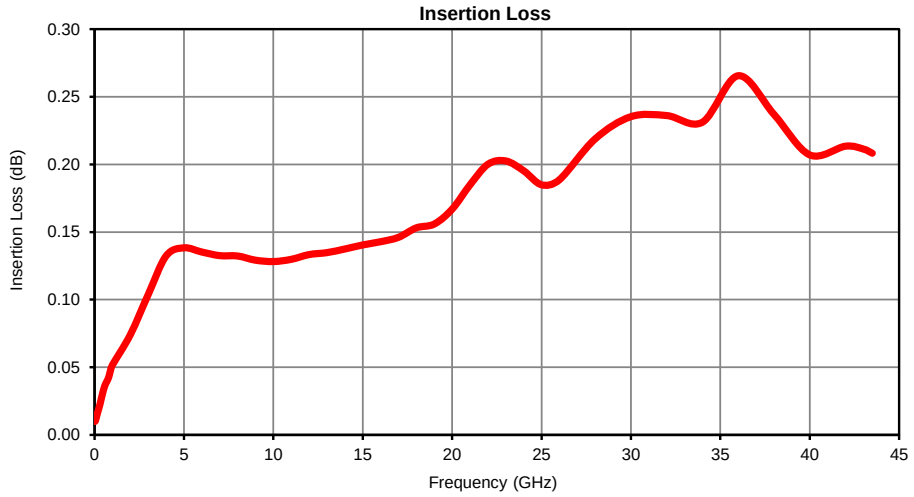
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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document 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

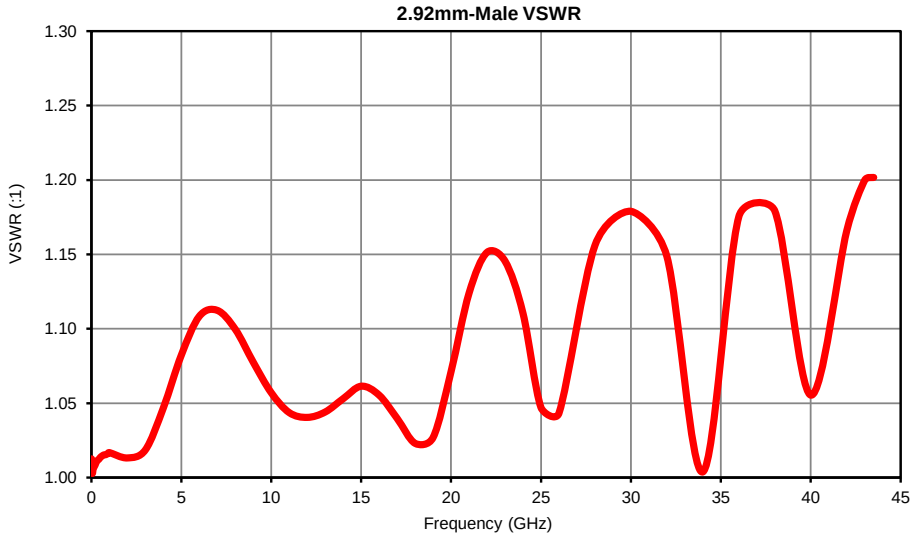
Right Angle Adapter, 2.92mm Male to 2.4mm Female KMR-24F+

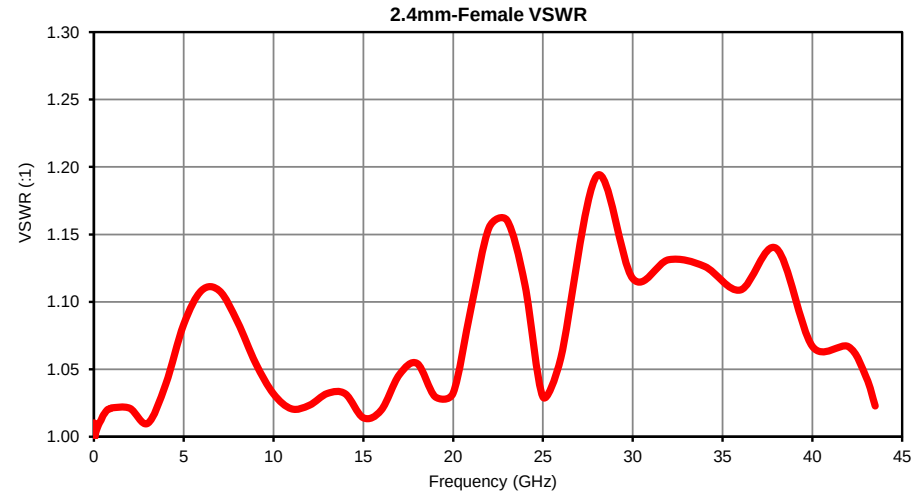
Typical Performance Data

FREQUENCY (GHz)	INSERTION LOSS (dB)	2.92mm-MALE VSWR (:1)	2.4mm-FEMALE VSWR (:1)
0.01	0.01	1.01	1.01
0.05	0.01	1.00	1.00
0.1	0.01	1.01	1.00
0.2	0.02	1.01	1.01
0.3	0.02	1.01	1.01
0.4	0.03	1.01	1.01
0.5	0.03	1.01	1.02
0.6	0.04	1.01	1.02
0.7	0.04	1.02	1.02
0.8	0.04	1.02	1.02
0.9	0.05	1.02	1.02
1.0	0.05	1.02	1.02
2.0	0.07	1.01	1.02
3.0	0.10	1.02	1.01
4.0	0.13	1.05	1.04
5.0	0.14	1.08	1.08
6.0	0.14	1.11	1.11
7.0	0.13	1.11	1.11
8.0	0.13	1.10	1.09
9.0	0.13	1.08	1.05
10.0	0.13	1.06	1.03
11.0	0.13	1.04	1.02
12.0	0.13	1.04	1.02
13.0	0.13	1.04	1.03
14.0	0.14	1.05	1.03
15.0	0.14	1.06	1.01
16.0	0.14	1.06	1.02
17.0	0.15	1.04	1.05
18.0	0.15	1.02	1.05
19.0	0.16	1.03	1.03
20.0	0.17	1.07	1.03
21.0	0.18	1.12	1.10
22.0	0.20	1.15	1.16
23.0	0.20	1.15	1.16
24.0	0.20	1.11	1.11
25.0	0.18	1.05	1.03
26.0	0.19	1.04	1.06
28.0	0.22	1.16	1.19
30.0	0.24	1.18	1.12
32.0	0.24	1.15	1.13
34.0	0.23	1.00	1.13
36.0	0.27	1.18	1.11
38.0	0.24	1.18	1.14
40.0	0.21	1.06	1.07
42.0	0.21	1.17	1.07
43.0	0.21	1.20	1.04
43.5	0.21	1.20	1.02

Typical Performance Curves

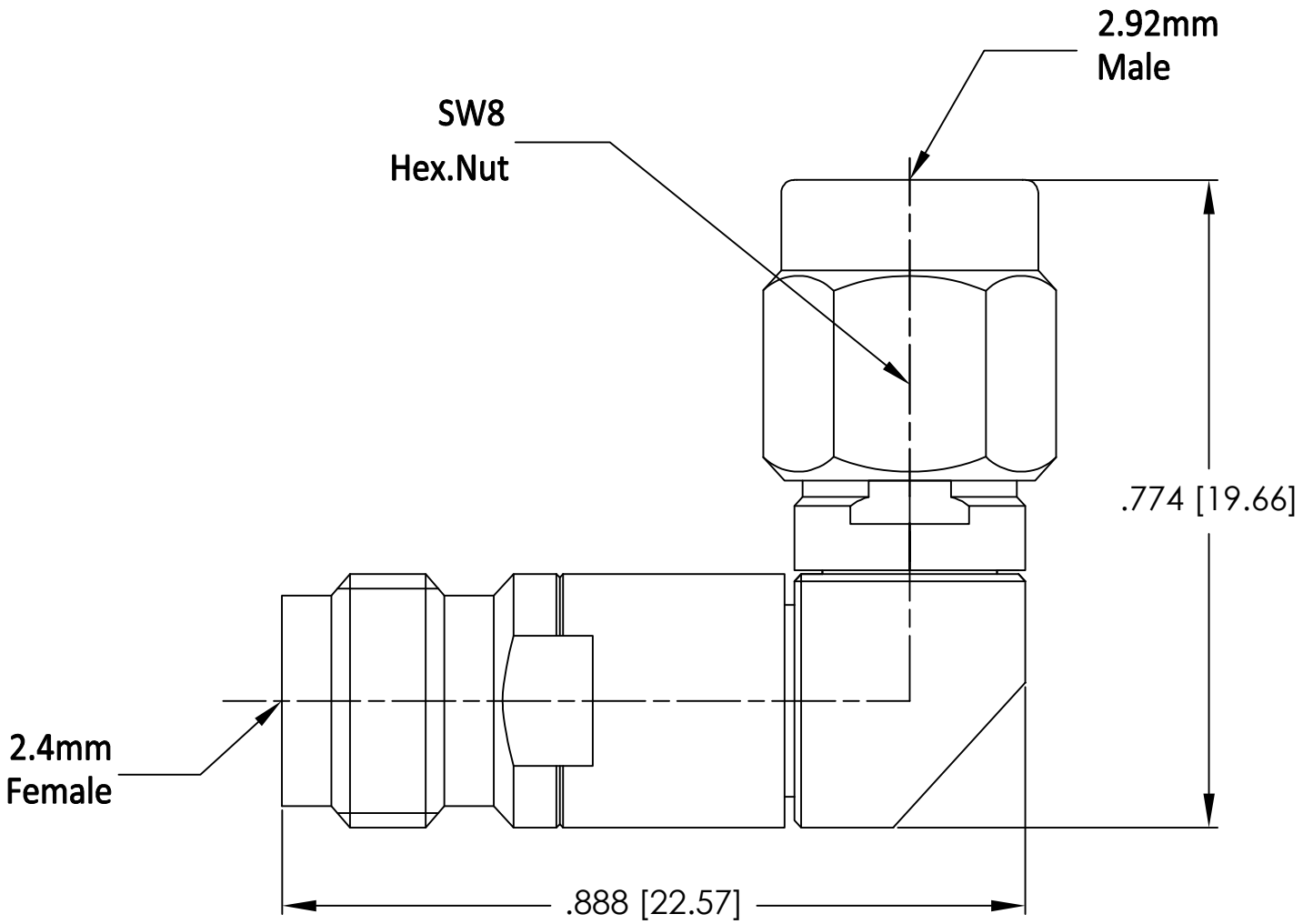






Case Style DJ

Outline Dimensions DJ2442-9



Weight: 6 grams.

Dimensions are in inches (mm). Tolerances: 2 Pl.±.030; 3 Pl. ±.015

Notes:
1. Case material: Stainless Steel..
2. Finish: Passivation.

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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

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