



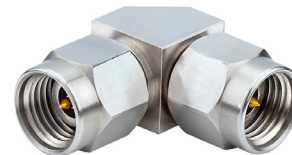
Adapter

KMR-KM50+

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

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Low Insertion Loss, 0.13 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.	KMR-KM50+
Case Style	DJ2442-4
Connectors	Right Angle 2.92 mm M to 2.92 mm M

+RoHS Compliant

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

PRODUCT OVERVIEW

Mini-Circuits' KMR-KM50+ is a right-angle 2.92 mm-M to 2.92 mm-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 KMR-KM50+ features passivated stainless steel construction and goldplated berillium copper construction center contact.

KEY FEATURES

Features	Advantages
Right-Angle adapter	Enables right-angle interconnections in tight spaces.
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 50 Ω systems and minimizes signal reflections across wide frequency range.
Low insertion loss, 0.13 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 to +100 $^{\circ}$ C	Withstands extreme operating conditions and is suitable for use near high power componentry 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	-	0.13	0.8	dB
VSWR	DC - 40	-	1.06	1.26	: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.



COAXIAL

Adapter

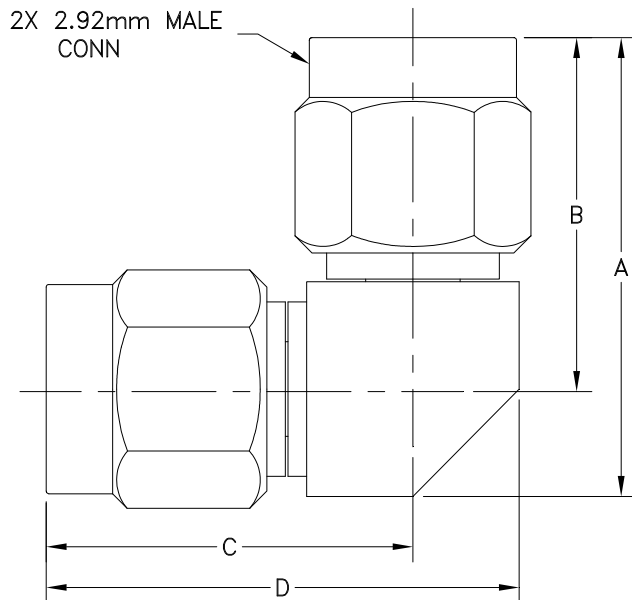
KMR-KM50+

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

COAXIAL CONNECTIONS

Connector 1	2.92 mm -Male
Connector 2	2.92 mm -Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches) mm

A	B	C	D	E	wt
0.673	0.520	0.543	0.701	--	grams
17.10	13.20	13.80	17.80	--	7.0



COAXIAL

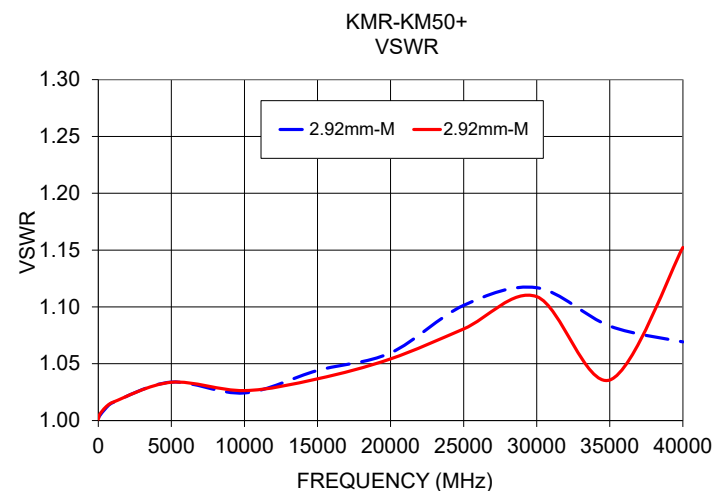
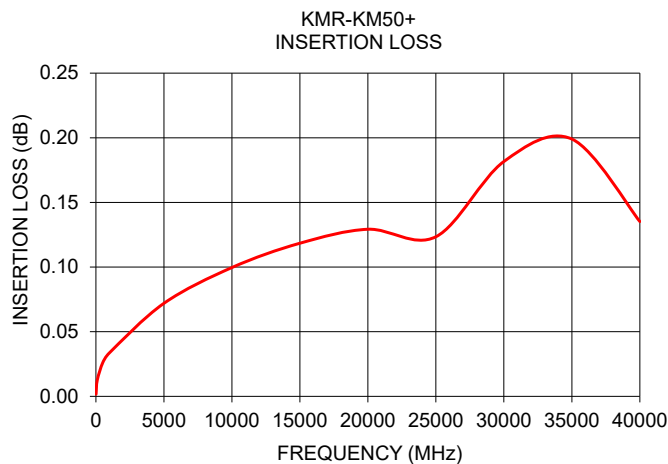
Adapter

KMR-KM50+

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

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92mm-Male	2.92mm-Male
10	0.00	1.00	1.00
100	0.01	1.00	1.01
500	0.03	1.01	1.01
1000	0.03	1.02	1.02
5000	0.07	1.03	1.03
10000	0.10	1.02	1.03
15000	0.12	1.04	1.04
20000	0.13	1.06	1.05
25000	0.12	1.10	1.08
30000	0.18	1.12	1.11
35000	0.20	1.08	1.04
40000	0.14	1.07	1.15



NOTES

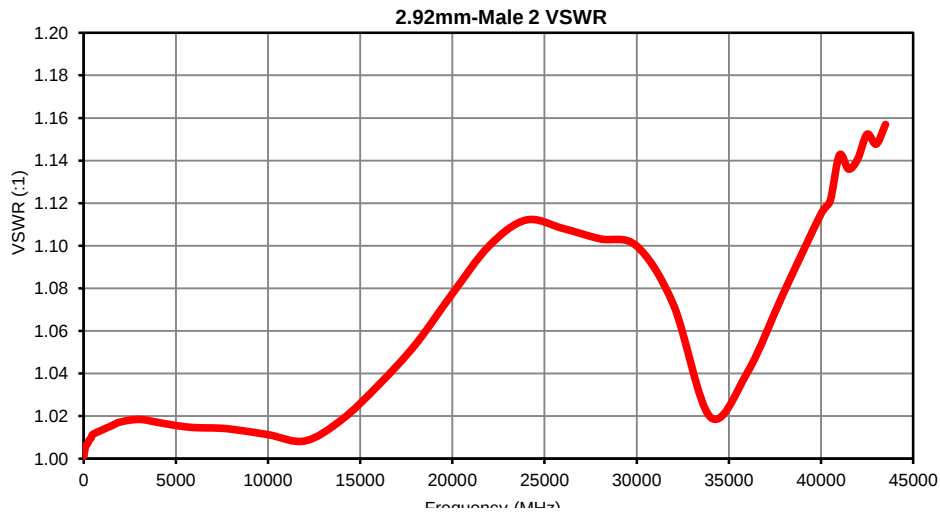
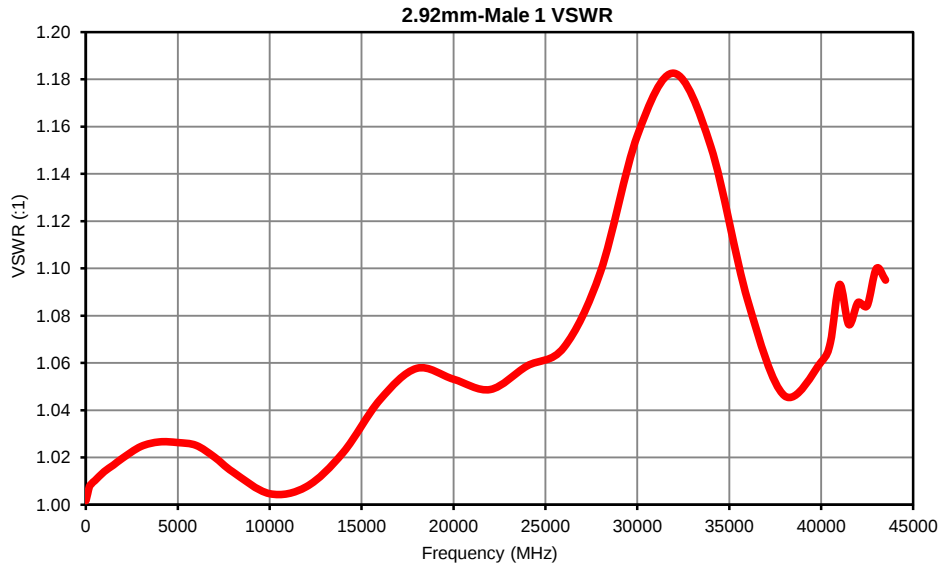
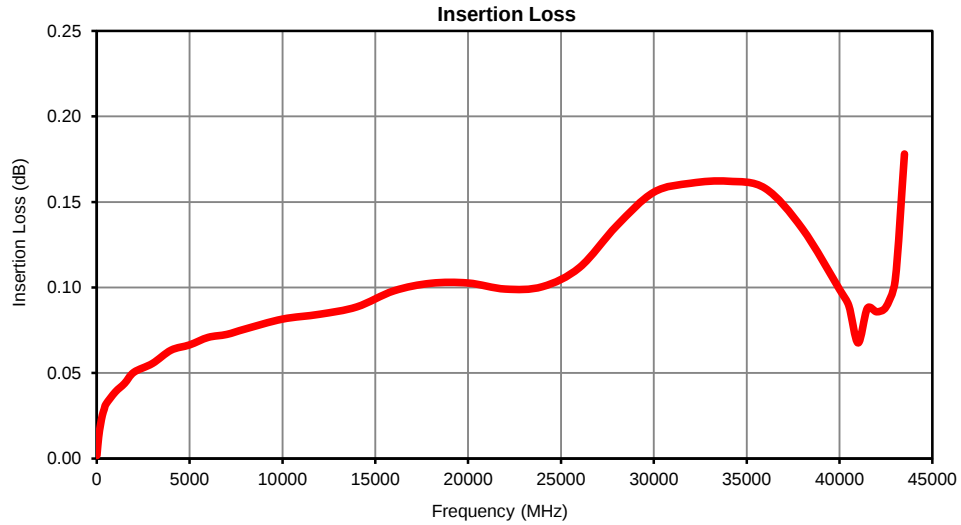
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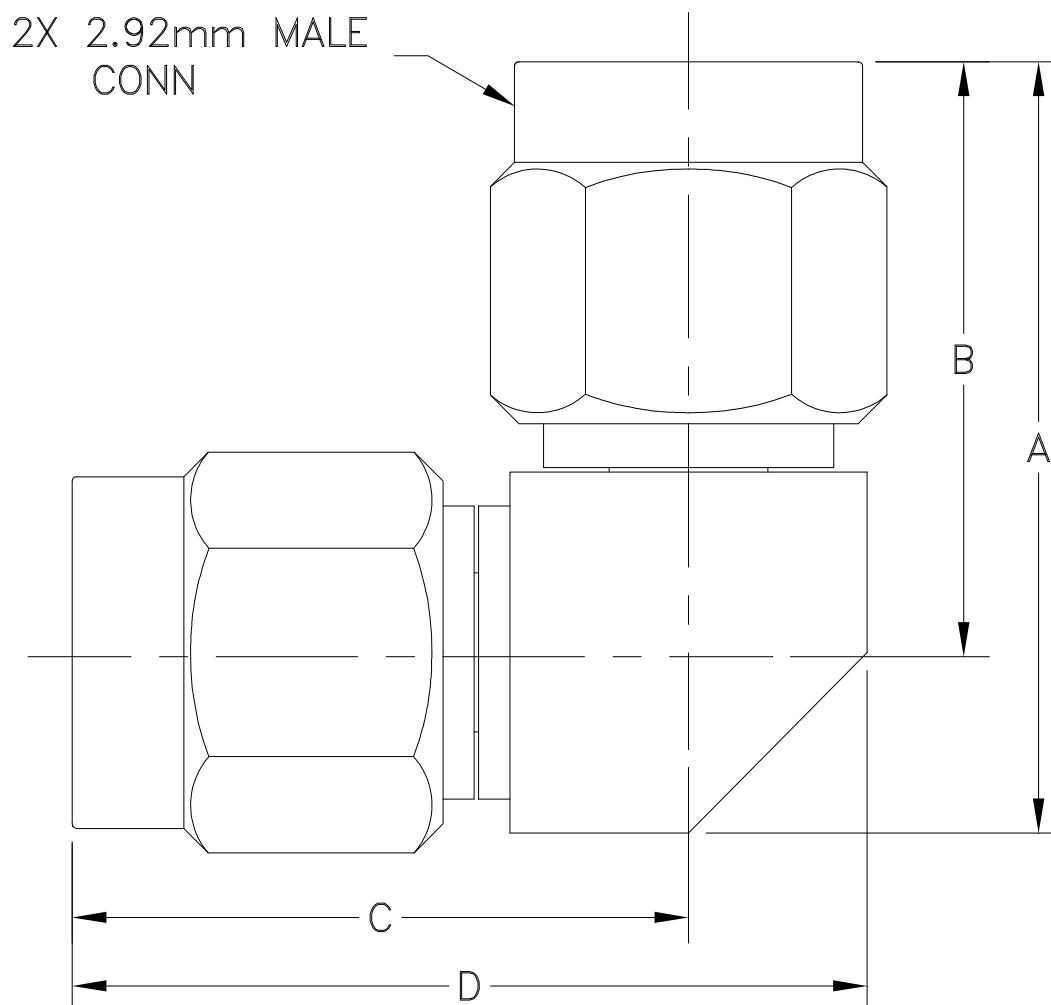
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	2.92mm-MALE 1 VSWR (:1)	2.92mm-MALE 2 VSWR (:1)
10	0.00	1.00	1.00
100	0.01	1.00	1.01
200	0.02	1.01	1.01
300	0.03	1.01	1.01
400	0.03	1.01	1.01
500	0.03	1.01	1.01
1000	0.04	1.01	1.01
1500	0.04	1.02	1.02
2000	0.05	1.02	1.02
3000	0.06	1.02	1.02
4000	0.06	1.03	1.02
5000	0.07	1.03	1.02
6000	0.07	1.03	1.01
7000	0.07	1.02	1.01
8000	0.08	1.01	1.01
10000	0.08	1.00	1.01
12000	0.08	1.01	1.01
14000	0.09	1.02	1.02
16000	0.10	1.04	1.03
18000	0.10	1.06	1.05
20000	0.10	1.05	1.08
22000	0.10	1.05	1.10
24000	0.10	1.06	1.11
26000	0.11	1.07	1.11
28000	0.14	1.10	1.10
30000	0.16	1.16	1.10
32000	0.16	1.18	1.07
34000	0.16	1.15	1.02
36000	0.16	1.09	1.04
38000	0.13	1.05	1.08
40000	0.10	1.06	1.11
40500	0.09	1.07	1.12
41000	0.07	1.09	1.14
41500	0.09	1.08	1.14
42000	0.09	1.09	1.14
42500	0.09	1.08	1.15
43000	0.10	1.10	1.15
43500	0.18	1.10	1.16

Typical Performance Curves



Outline Dimensions



CASE#	A	B	C	D	E	WT. GRAM
DJ2442-4	.673 (17.10)	.520 (13.20)	.543 (13.80)	.701 (17.80)	- -	7.00

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

Note:

1. Case material: Brass Alloy
2. Finish: Gold Plating



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	