



COAXIAL

Adapter

KM-24M+

50Ω DC to 40 GHz 2.92 mm-Male to 2.4 mm-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.	KM-24M+
Case Style	DJ2384
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' KM-24M+ is a coaxial 2.92 mm-M to 2.4 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 KM-24M+ features passivated stainless steel construction and measures only 0.81" (l) x 0.36" (dia.).

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.
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.





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ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Frequency (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	40	GHz
Insertion Loss	DC - 5	-	0.01	-	dB
	5 - 10	-	0.03	-	
	10 - 20	-	0.06	-	
	20 - 40	-	0.13	0.6	
VSWR	DC - 5	-	1.03	1.15	:1
	5 - 10	-	1.02	1.15	
	10 - 20	-	1.06	1.15	
	20 - 40	-	1.08	1.15	

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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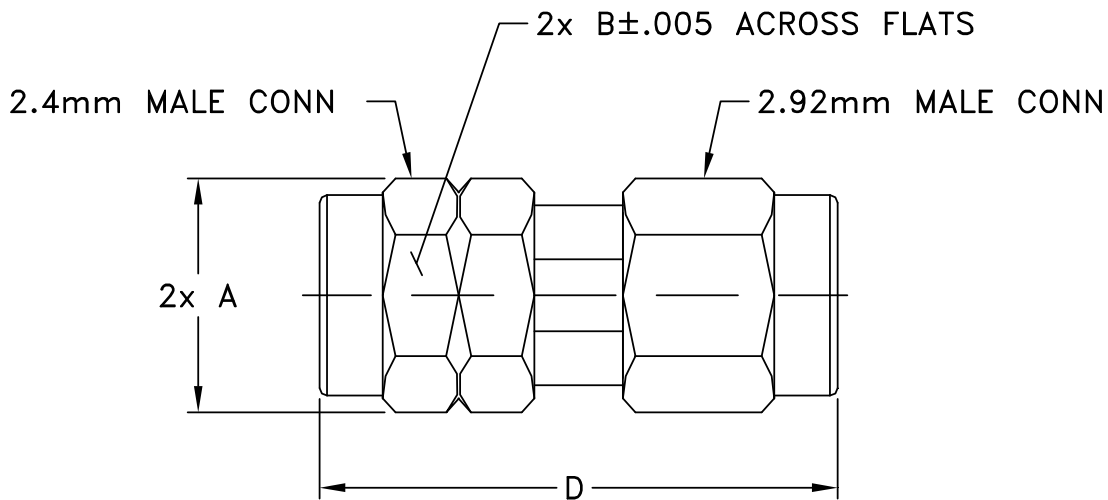
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COAXIAL CONNECTIONS

Connector 1	2.92 mm Male
Connector 2	2.4 mm Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches/mm)

A	B	C	D	E	wt
0.36	0.312	--	0.807	--	grams
9.14	7.93	--	20.50	--	5.4



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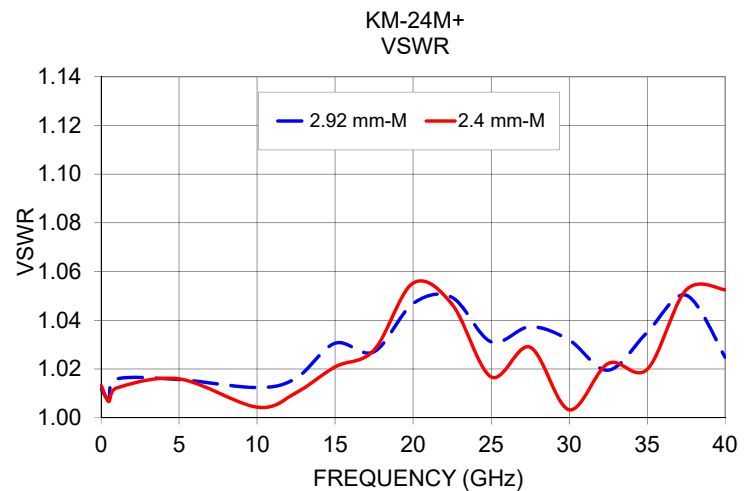
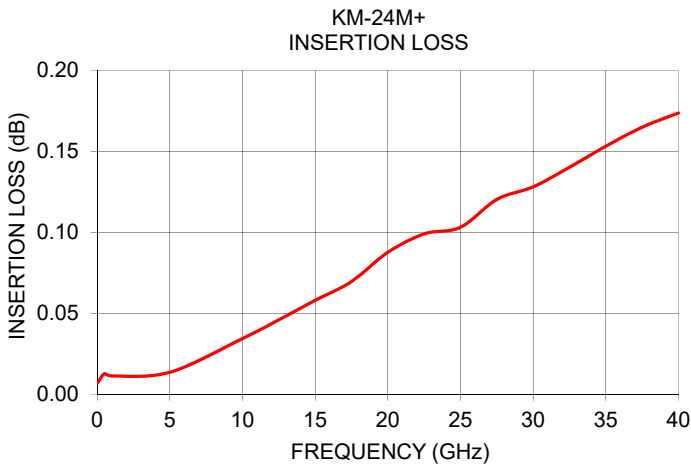
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TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92mm Male	2.4mm Male
0.01	0.01	1.01	1.01
0.5	0.01	1.01	1.01
1.0	0.01	1.02	1.01
5.0	0.01	1.02	1.02
10.0	0.03	1.01	1.00
12.5	0.05	1.02	1.01
15.0	0.06	1.03	1.02
17.5	0.07	1.03	1.03
20.0	0.09	1.05	1.06
22.5	0.10	1.05	1.05
25.0	0.10	1.03	1.02
27.5	0.12	1.04	1.03
30.0	0.13	1.03	1.00
32.5	0.14	1.02	1.02
35.0	0.15	1.04	1.02
37.5	0.16	1.05	1.05
40.0	0.17	1.02	1.05



NOTES

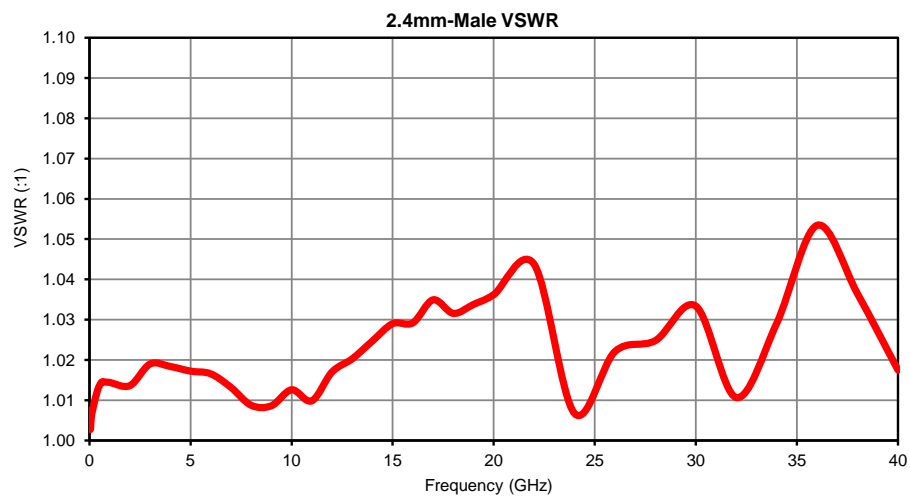
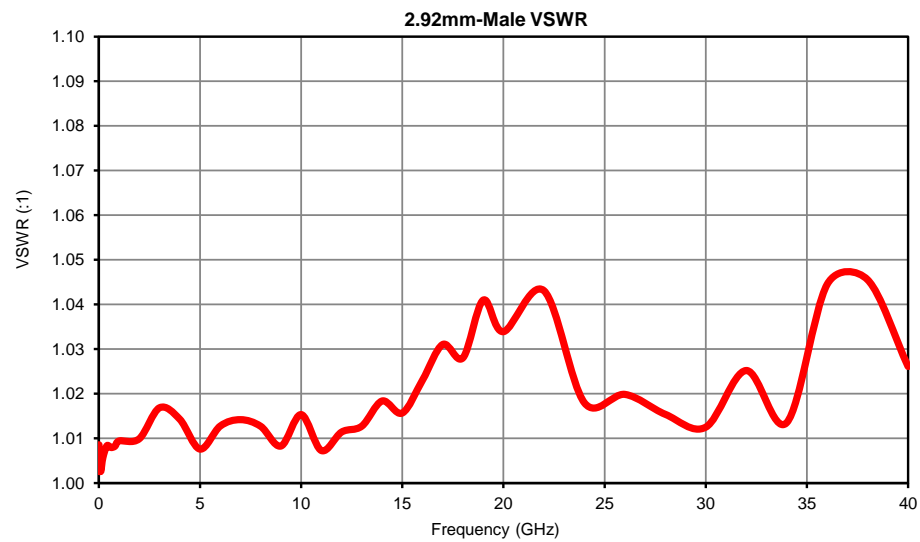
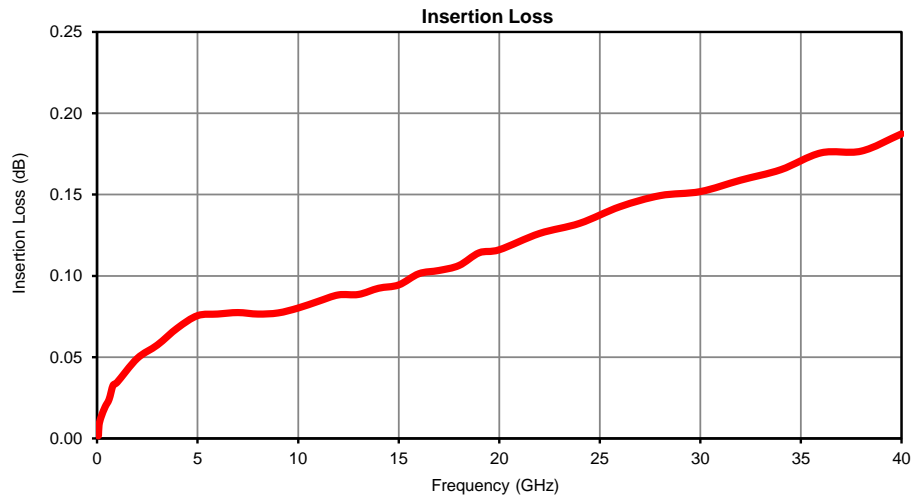
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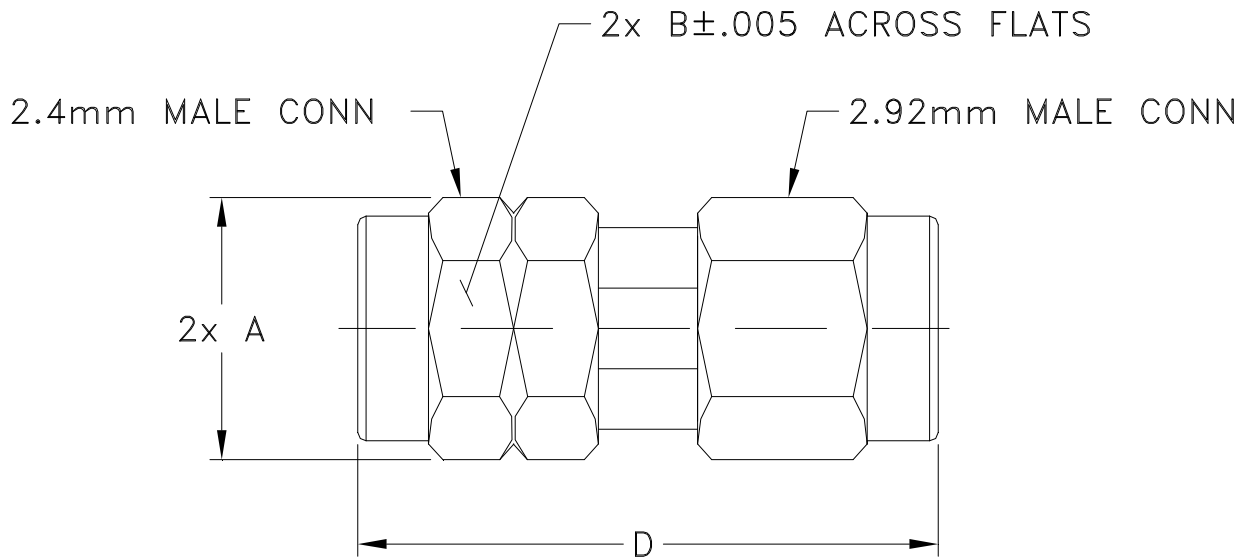
Typical Performance Data

FREQUENCY (GHz)	INSERTION LOSS (dB)	2.92mm-MALE VSWR (:1)	2.4mm-MALE VSWR (:1)
0.01	0.01	1.01	1.01
0.04	0.00	1.00	1.00
0.07	0.00	1.00	1.00
0.10	0.01	1.00	1.01
0.2	0.01	1.01	1.01
0.4	0.02	1.01	1.01
0.6	0.02	1.01	1.01
0.8	0.03	1.01	1.01
1	0.03	1.01	1.01
2	0.05	1.01	1.01
3	0.06	1.02	1.02
4	0.07	1.01	1.02
5	0.08	1.01	1.02
6	0.08	1.01	1.02
7	0.08	1.01	1.01
8	0.08	1.01	1.01
9	0.08	1.01	1.01
10	0.08	1.02	1.01
11	0.08	1.01	1.01
12	0.09	1.01	1.02
13	0.09	1.01	1.02
14	0.09	1.02	1.02
15	0.09	1.02	1.03
16	0.10	1.02	1.03
17	0.10	1.03	1.03
18	0.11	1.03	1.03
19	0.11	1.04	1.03
20	0.12	1.03	1.04
22	0.13	1.04	1.04
24	0.13	1.02	1.01
26	0.14	1.02	1.02
28	0.15	1.02	1.02
30	0.15	1.01	1.03
32	0.16	1.03	1.01
34	0.17	1.01	1.03
36	0.18	1.04	1.05
38	0.18	1.05	1.04
40	0.19	1.03	1.02

Typical Performance Curves



Outline Dimensions



CASE #	A	B	C	D	E	WT. GRAM
DJ2384	.36 (9.14)	.312 (7.93)	-- --	.807 (20.50)	-- --	5.4

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .03; 3Pl. + .015

Note:

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

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	