COAXIAL

Adapter

KF-24M+

50Ω DC to 40 GHz 2.92 mm Female to 2.4 mm Male

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Flat Response
- Low Insertion Loss, 0.12 dB
- Excellent VSWR, 1.10:1
- Stainless-steel Construction

Generic photo used for illustration purposes only

Model No.	KF-24M+
Case Style	DJ2382
Connectors	2.92 mm Female to 2.4 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' KF-24M+ is a coaxial 2.92 mm Female to 2.4 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 KF-24M+ features passivated stainless steel construction and measures only 0.76" (l) x 0.36" (dia.).

KEY FEATURES

Features	Advantages
Ultra-Wideband, DC to 40 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Excellent VSWR, 1.10:1	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low Insertion Loss, 0.12 dB	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 componentry where heat rise is common.

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range	—	DC	—	40	GHz
Insertion Loss	DC–5	—	0.03	—	dB
	5–10	—	0.06	—	
	10–20	—	0.08	—	
	20–40	—	0.12	0.6	
VSWR	DC–5	—	1.05	1.15	:1
	5–10	—	1.04	1.15	
	10–20	—	1.05	1.15	
	20–40	—	1.10	1.15	

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.

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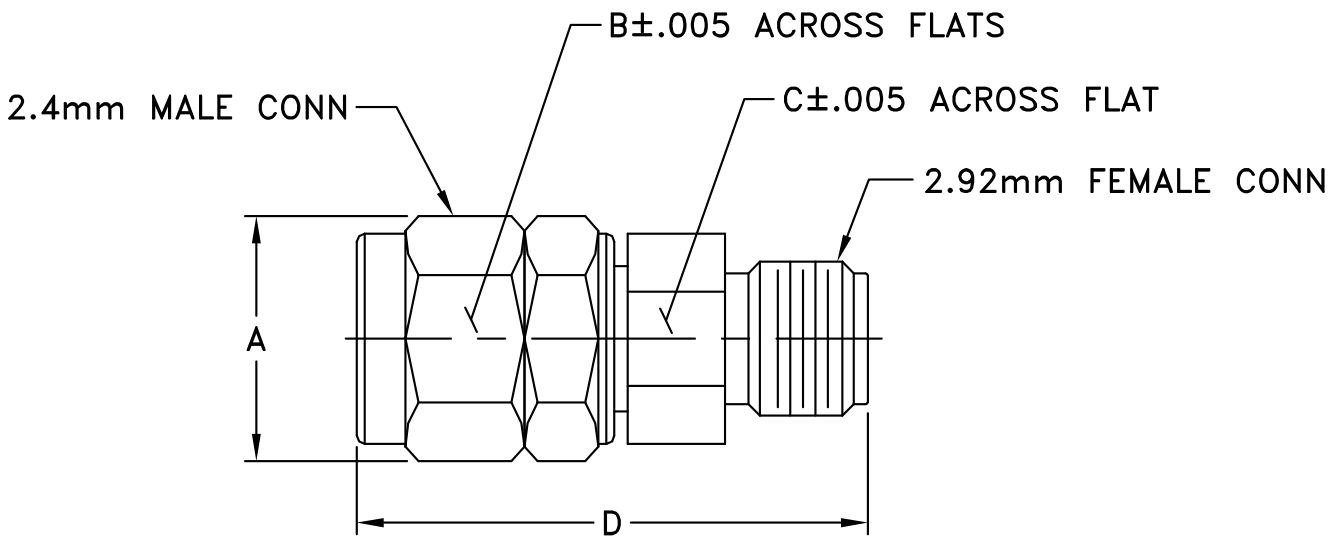
COAXIAL CONNECTIONS

Connector 1	2.92 mm Female
Connector 2	2.4 mm Male

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches / mm)

A	B	C	D	E	wt
0.36	0.312	0.236	0.760	--	grams
9.14	7.93	5.99	19.30	--	5.44

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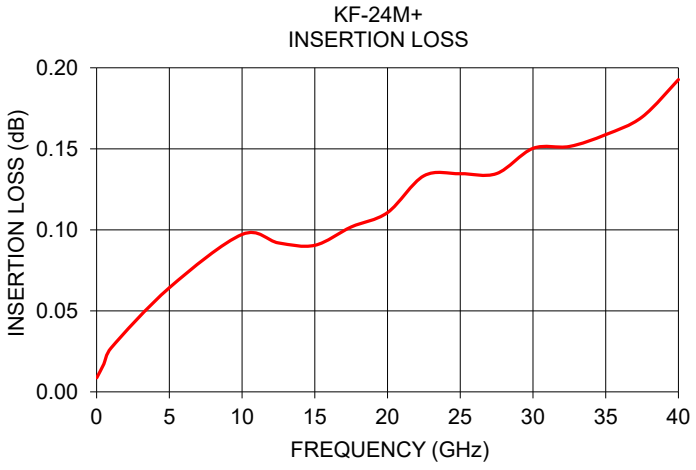
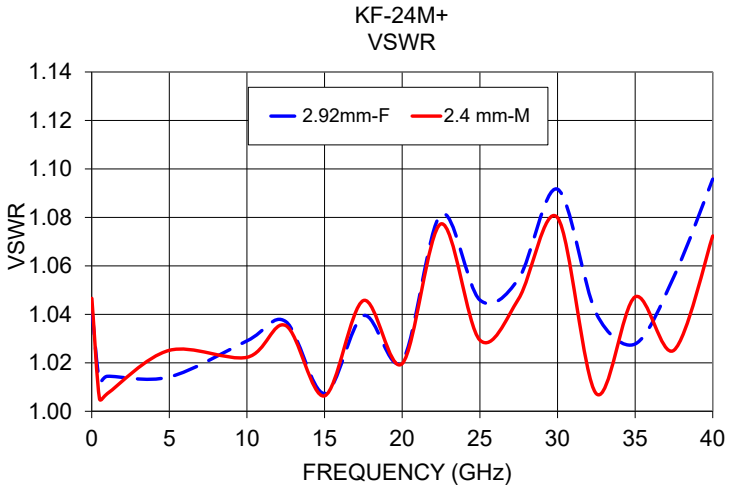
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (GHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92 mm-Female	2.4 mm-Male
0.01	0.01	1.04	1.05
0.5	0.02	1.01	1.01
1.0	0.03	1.01	1.01
5.0	0.06	1.01	1.03
10.0	0.10	1.03	1.02
12.5	0.09	1.04	1.04
15.0	0.09	1.01	1.01
17.5	0.10	1.04	1.05
20.0	0.11	1.02	1.02
22.5	0.13	1.08	1.08
25.0	0.13	1.05	1.03
27.5	0.13	1.05	1.05
30.0	0.15	1.09	1.08
32.5	0.15	1.04	1.01
35.0	0.16	1.03	1.05
37.5	0.17	1.06	1.03
40.0	0.19	1.10	1.07





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