



COAXIAL

Adapter

KFPM-KF50+

50Ω DC to 40 GHz 2.92mm-Female to 2.92mm-Female

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Flat Response
- Low Insertion Loss, 0.12 dB typ. up to 40 GHz
- Excellent VSWR, 1.08:1 typ. up to 40 GHz



Generic photo used for illustration purposes only

APPLICATIONS

- Interconnection of RF cables and equipment
- Instrumentation

Model No.	KFPM-KF50+
Case Style	DJ2261-2
Connectors	2.92 mm-F to 2.92 mm-F

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

PRODUCT OVERVIEW

Mini-Circuits' KFPM-KF50+ is a coaxial 2.92 mm-F to 2.92 mm-F panel mount 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 KFPM-KF50+ features a panel mount ideal for mounting connectors through panels in contained assemblies using a single hole.

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, 1.08:1 typ. up to 40 GHz	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low Insertion Loss, 0.12 dB typ. up to 40 GHz	Provides excellent signal power transmission from input to output.
Wide operating temperature range, -45 to +100 °C	Withstands extreme operating conditions and is suitable for use near high power componentry where heat rise is common.



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ELECTRICAL SPECIFICATIONS AT 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range	-	DC	-	40	GHz
Insertion Loss	DC-6	-	0.04	-	dB
	6-10	-	0.06	-	
	10-20	-	0.08	-	
	20-40	-	0.12	-	
VSWR	DC-6	-	1.01	1.25	:1
	6-10	-	1.04	1.25	
	10-20	-	1.05	1.25	
	20-40	-	1.05	1.25	

ABSOLUTE MAXIMUM RATINGS

Parameter	Ratings
Operating Temperature	-45°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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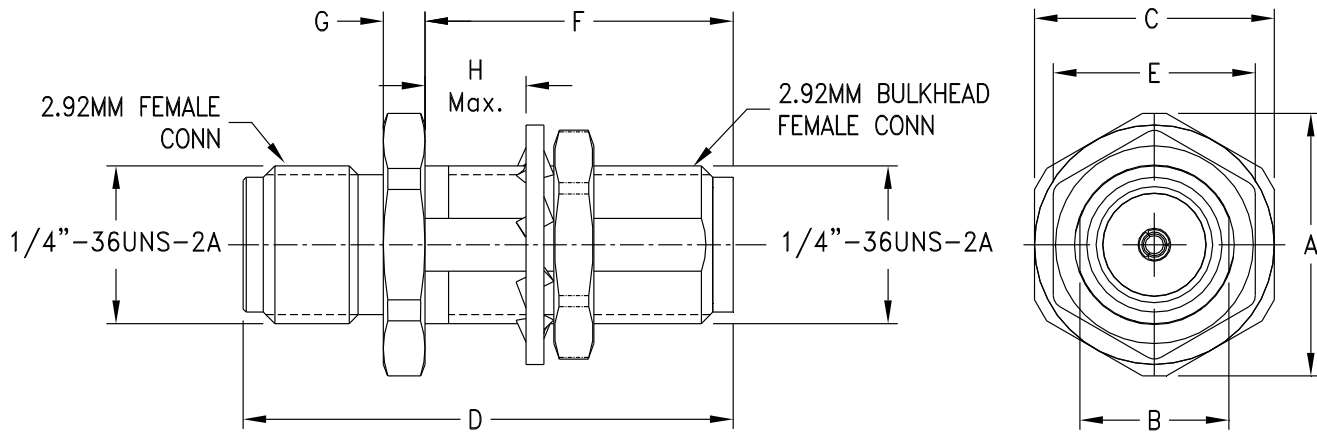
KFPM-KF50+

50Ω DC to 40 GHz 2.92mm-Female to 2.92mm-Female

COAXIAL CONNECTIONS

Connector 1	2.92 mm-F
Connector 2	2.92 mm-F

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches) mm

A	B	C	D	E
0.41	0.23	0.37	0.76	0.32
10.41	5.84	9.40	19.30	8.13
F	G	H	wt	
0.48	0.06	0.16	grams	
12.19	1.52	4.06	4.0	



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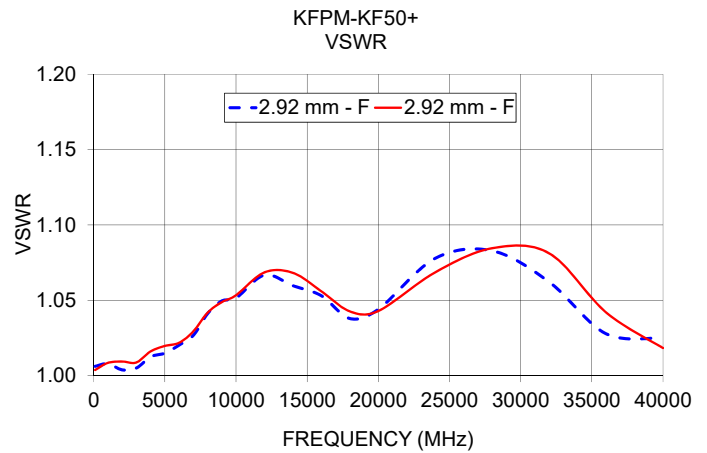
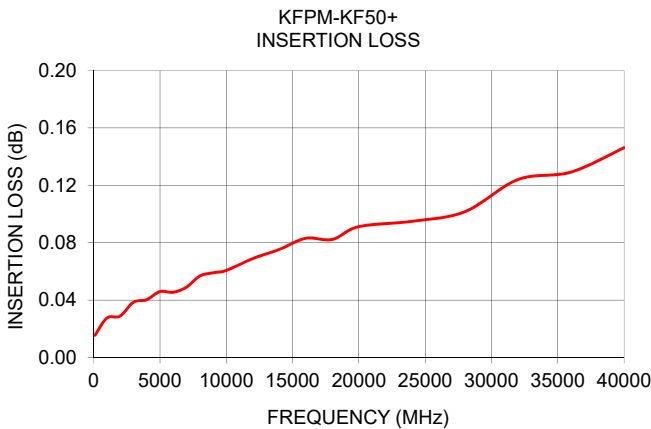
KFPM-KF50+

Mini-Circuits

50Ω DC to 40 GHz 2.92mm-Female to 2.92mm-Female

TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92 mm-Female	2.92 mm-Female
100	0.02	1.01	1.00
1000	0.03	1.01	1.01
2000	0.03	1.00	1.01
3000	0.04	1.01	1.01
4000	0.04	1.01	1.02
5000	0.05	1.02	1.02
6000	0.05	1.02	1.02
7000	0.05	1.03	1.03
8000	0.06	1.04	1.04
9000	0.06	1.05	1.05
10000	0.06	1.05	1.05
12000	0.07	1.07	1.07
14000	0.08	1.06	1.07
16000	0.08	1.05	1.06
18000	0.08	1.04	1.04
20000	0.09	1.04	1.04
24000	0.09	1.08	1.07
28000	0.10	1.08	1.08
32000	0.12	1.06	1.08
36000	0.13	1.03	1.04
40000	0.15	1.03	1.02



NOTES

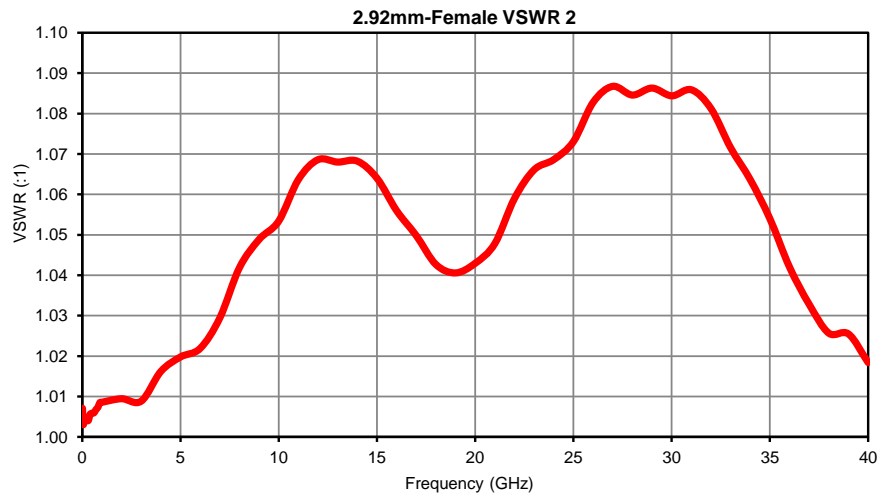
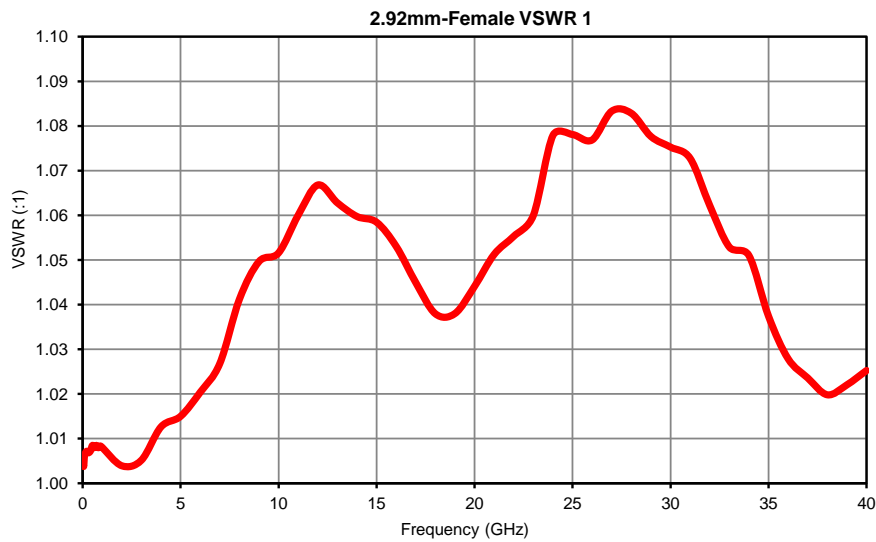
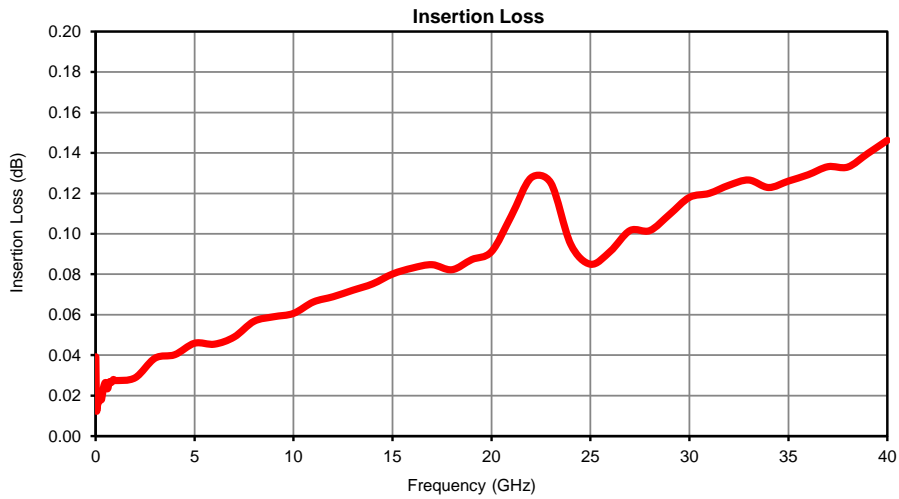
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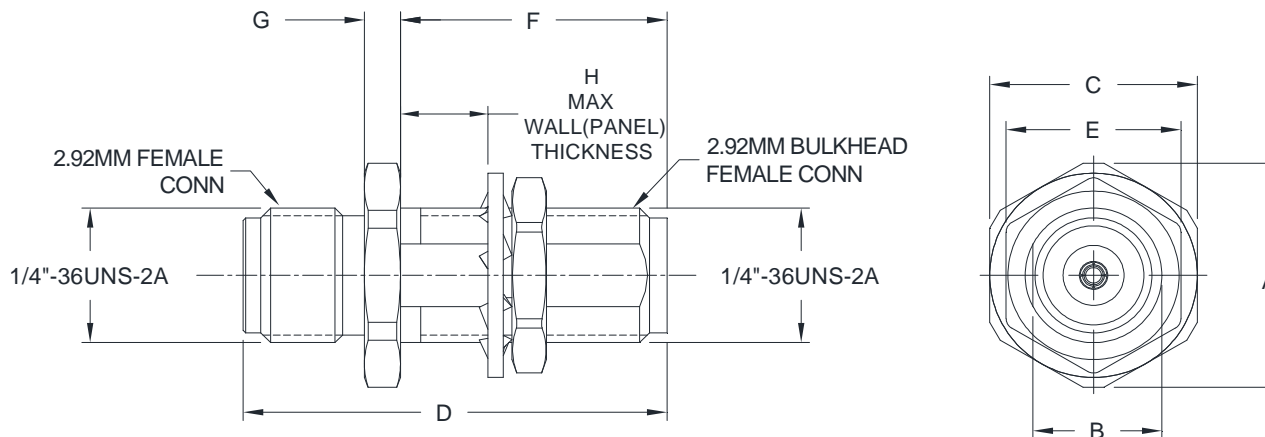
Typical Performance Data

FREQUENCY (GHz)	INSERTION LOSS (dB)	2.92mm-FEMALE 1 VSWR (:1)	2.92mm-FEMALE 2 VSWR (:1)
0.01	0.04	1.01	1.01
0.05	0.01	1.00	1.00
0.10	0.02	1.01	1.00
0.20	0.02	1.01	1.00
0.30	0.02	1.01	1.00
0.40	0.02	1.01	1.01
0.50	0.03	1.01	1.01
0.60	0.02	1.01	1.01
0.70	0.03	1.01	1.01
0.80	0.03	1.01	1.01
0.90	0.03	1.01	1.01
1.00	0.03	1.01	1.01
2.00	0.03	1.00	1.01
3.00	0.04	1.01	1.01
4.00	0.04	1.01	1.02
5.00	0.05	1.02	1.02
6.00	0.05	1.02	1.02
7.00	0.05	1.03	1.03
8.00	0.06	1.04	1.04
9.00	0.06	1.05	1.05
10.00	0.06	1.05	1.05
11.00	0.07	1.06	1.06
12.00	0.07	1.07	1.07
13.00	0.07	1.06	1.07
14.00	0.08	1.06	1.07
15.00	0.08	1.06	1.06
16.00	0.08	1.05	1.06
17.00	0.08	1.04	1.05
18.00	0.08	1.04	1.04
19.00	0.09	1.04	1.04
20.00	0.09	1.04	1.04
21.00	0.11	1.05	1.05
22.00	0.13	1.06	1.06
23.00	0.13	1.06	1.07
24.00	0.09	1.08	1.07
25.00	0.08	1.08	1.07
26.00	0.09	1.08	1.08
27.00	0.10	1.08	1.09
28.00	0.10	1.08	1.08
29.00	0.11	1.08	1.09
30.00	0.12	1.08	1.08
31.00	0.12	1.07	1.09
32.00	0.12	1.06	1.08
33.00	0.13	1.05	1.07
34.00	0.12	1.05	1.06
35.00	0.13	1.04	1.05
36.00	0.13	1.03	1.04
37.00	0.13	1.02	1.03
38.00	0.13	1.02	1.03
39.00	0.14	1.02	1.03
40.00	0.15	1.03	1.02

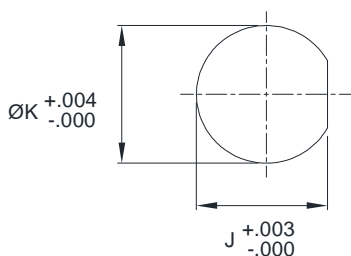
Typical Performance Curves



Outline Dimensions



MOUNTING DETAIL



CASE #	A	B	C	D	E	F	G	H	J	K	WT. GRAM
DJ2261-2	.41 [10.41]	.23 [5.9]	.37 [9.5]	.76 [19.4]	.32 [8]	.48 [12.2]	.06 [1.65]	.16 [4]	.236 [6.0]	.252 [6.4]	4

Dimensions are in inches (mm). Tolerances: 2 Pl. ± .002; 3Pl. + .001

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



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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	