COAXIAL

Adapter

KFFL-KF50+

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

THE BIG DEAL

- Ultra-Wideband, DC to 40 GHz
- Flat Response
- Low Insertion Loss, 0.15 dB Typ.
- Excellent VSWR, 1.15:1
- Stainless Steel Construction



Generic photo used for illustration purposes only

Model No.	KFFL-KF50+
Case Style	DJ2261
Connectors	2.92 mm Female to 2.92 mm Female

APPLICATIONS

- Interconnection of RF Cables and Equipment
- Instrumentation

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

PRODUCT OVERVIEW

Mini-Circuits' KFFL-KF50+ is a coaxial 2.92 mm female to 2.92 mm female four-hole flange-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 KFFL-KF50+ features a four-hole flange ideal for mounting connectors through panels in contained assemblies.

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, 1.15:1	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low Insertion Loss, 0.15 dB Typ.	Provides excellent signal power transmission from input to output.
Four-Hole Flange	Ideal for mounting connectors through panels in contained assemblies.
Very Wide Operating Temperature Range, -45 °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-024981
KFFL-KF50+
MCL NY
260506

ELECTRICAL SPECIFICATIONS AT +25 °C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range	–	DC	–	40	GHz
Insertion Loss	DC–40	–	0.15	0.6	dB
VSWR	DC–40	–	–	1.15	:1

ABSOLUTE MAXIMUM RATINGS[1]

Parameter	Ratings
Operating Temperature	-45 °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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Adapter

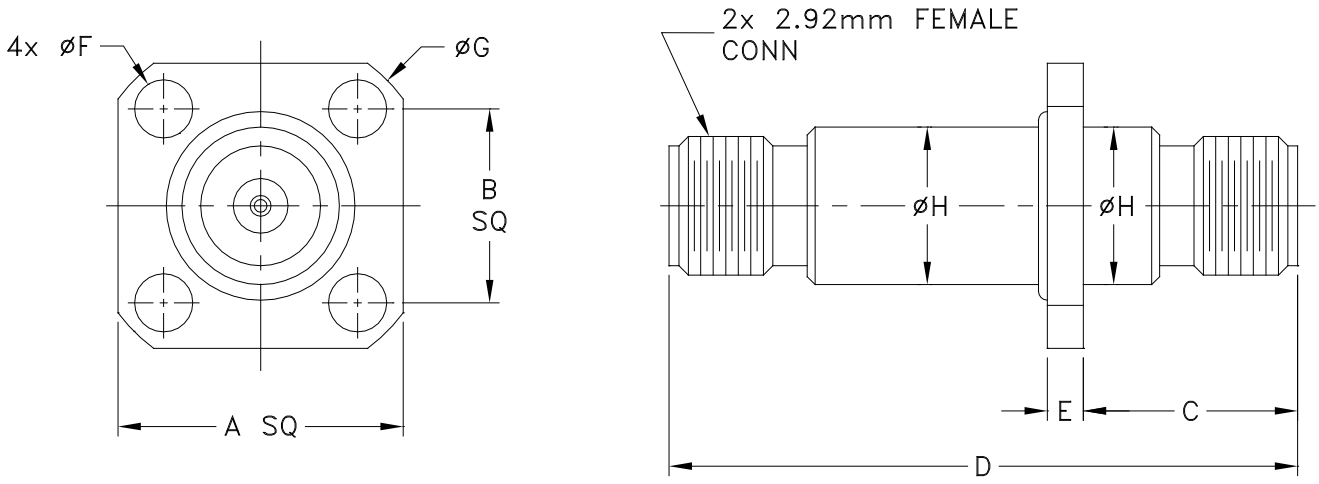
KFFL-KF50+

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

COAXIAL CONNECTIONS

Connector 1	2.92 mm female
Connector 2	2.92 mm female

OUTLINE DRAWING



OUTLINE DIMENSIONS (Inches / mm)

A	B	C	D	E	F	G	H	wt.
.50	.339	.38	1.10	.06	.102	.622	.276	grams
12.7	8.6	9.6	28.0	1.6	2.6	15.8	7.0	5.6

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Adapter

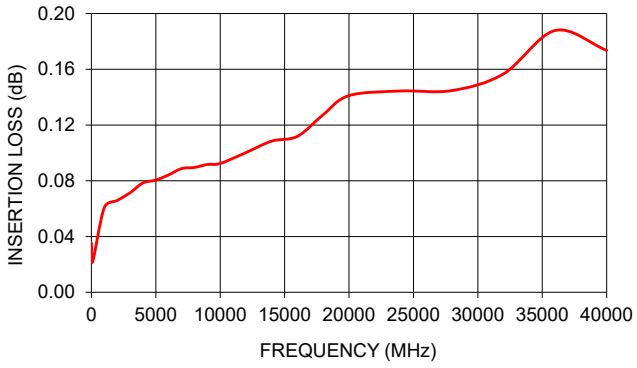
KFFL-KF50+

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

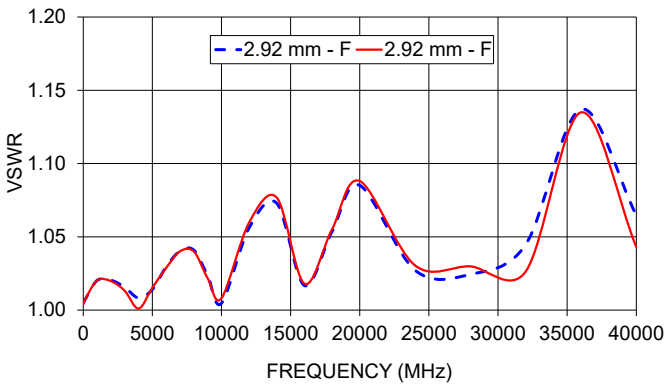
TYPICAL PERFORMANCE DATA AND CHARTS

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		2.92 mm Female	2.92 mm Female
10	0.04	1.00	1.00
100	0.02	1.01	1.01
1000	0.06	1.02	1.02
2000	0.07	1.02	1.02
3000	0.07	1.02	1.01
4000	0.08	1.01	1.00
5000	0.08	1.01	1.02
6000	0.08	1.03	1.03
7000	0.09	1.04	1.04
8000	0.09	1.04	1.04
9000	0.09	1.02	1.02
10000	0.09	1.00	1.01
12000	0.10	1.06	1.06
14000	0.11	1.07	1.08
16000	0.11	1.02	1.02
18000	0.13	1.05	1.06
20000	0.14	1.09	1.09
24000	0.14	1.03	1.03
28000	0.14	1.02	1.03
32000	0.16	1.04	1.03
36000	0.19	1.14	1.13
40000	0.17	1.06	1.04

KFFL-KF50+
INSERTION LOSS



KFFL-KF50+
VSWR



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

Adapter, K Female to K Female KFFL-KF50+

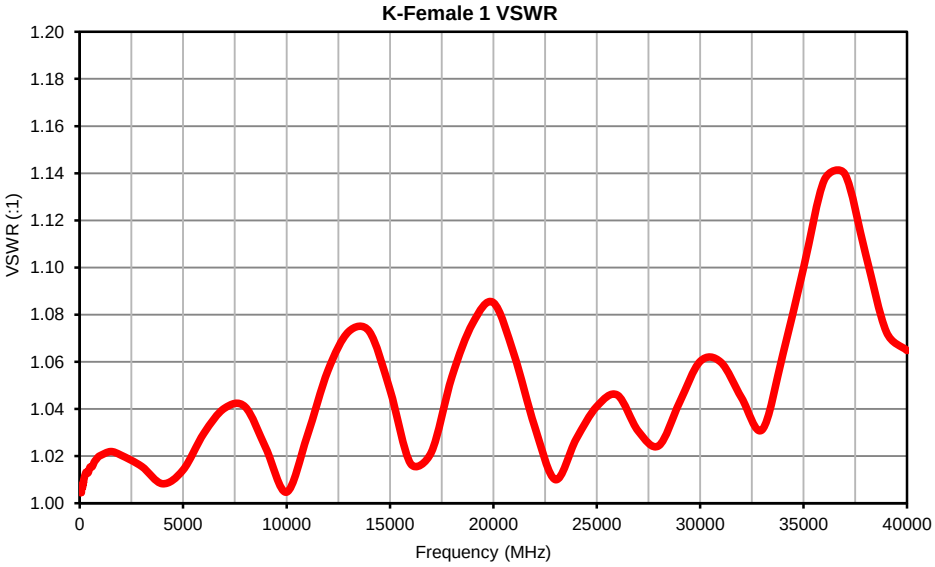
Typical Performance Data

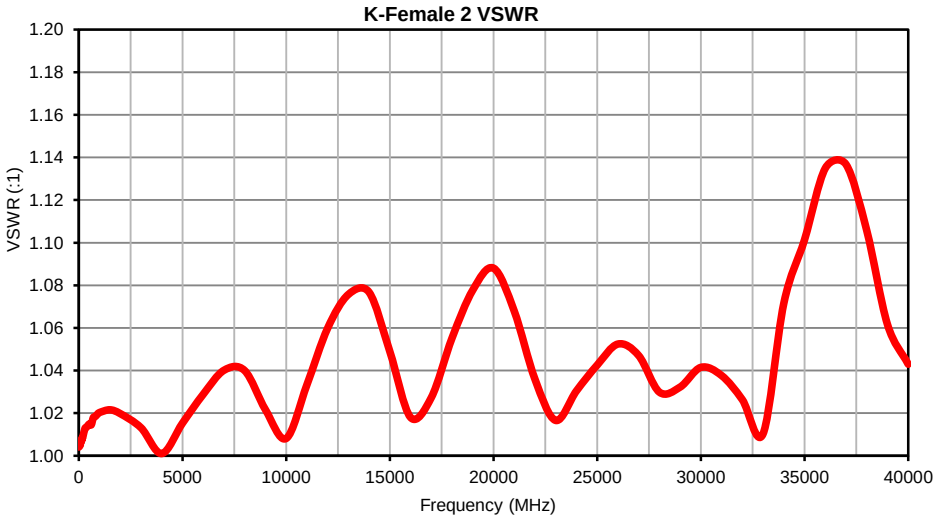
FREQUENCY (MHz)	INSERTION LOSS (dB)	K-FEMALE 1 VSWR (:1)	K-FEMALE 2 VSWR (:1)
10	0.04	1.00	1.00
20	0.01	1.01	1.01
30	0.01	1.00	1.01
40	0.01	1.00	1.01
50	0.01	1.00	1.01
60	0.02	1.00	1.01
70	0.02	1.00	1.00
80	0.02	1.00	1.01
90	0.02	1.01	1.01
100	0.02	1.01	1.01
110	0.02	1.01	1.01
120	0.02	1.01	1.01
130	0.02	1.01	1.01
140	0.02	1.01	1.01
150	0.03	1.01	1.01
160	0.03	1.01	1.01
170	0.03	1.01	1.01
180	0.03	1.01	1.01
190	0.03	1.01	1.01
200	0.03	1.01	1.01
300	0.04	1.01	1.01
400	0.05	1.01	1.01
500	0.05	1.02	1.01
600	0.05	1.02	1.01
700	0.06	1.02	1.02
800	0.06	1.02	1.02
900	0.06	1.02	1.02
1000	0.06	1.02	1.02
1500	0.06	1.02	1.02
2000	0.07	1.02	1.02
3000	0.07	1.02	1.01
4000	0.08	1.01	1.00
5000	0.08	1.01	1.02
6000	0.08	1.03	1.03
7000	0.09	1.04	1.04
8000	0.09	1.04	1.04
9000	0.09	1.02	1.02
10000	0.09	1.00	1.01
11000	0.09	1.03	1.03
12000	0.10	1.06	1.06
13000	0.11	1.07	1.08
14000	0.11	1.07	1.08
15000	0.11	1.05	1.05
16000	0.11	1.02	1.02
17000	0.12	1.02	1.03
18000	0.13	1.05	1.06
19000	0.13	1.08	1.08
20000	0.14	1.09	1.09
21000	0.14	1.06	1.07
22000	0.14	1.03	1.04
23000	0.14	1.01	1.02
24000	0.14	1.03	1.03
25000	0.15	1.04	1.04
26000	0.15	1.05	1.05
27000	0.15	1.03	1.05
28000	0.14	1.02	1.03
29000	0.15	1.04	1.03
30000	0.15	1.06	1.04
31000	0.15	1.06	1.04
32000	0.16	1.04	1.03
33000	0.16	1.03	1.01
34000	0.17	1.06	1.07
35000	0.18	1.10	1.10
36000	0.19	1.14	1.13
37000	0.19	1.14	1.14
38000	0.17	1.11	1.11
39000	0.17	1.07	1.06
40000	0.17	1.06	1.04

Adapter, K Female to K Female KFFL-KF50+

Typical Performance Curves



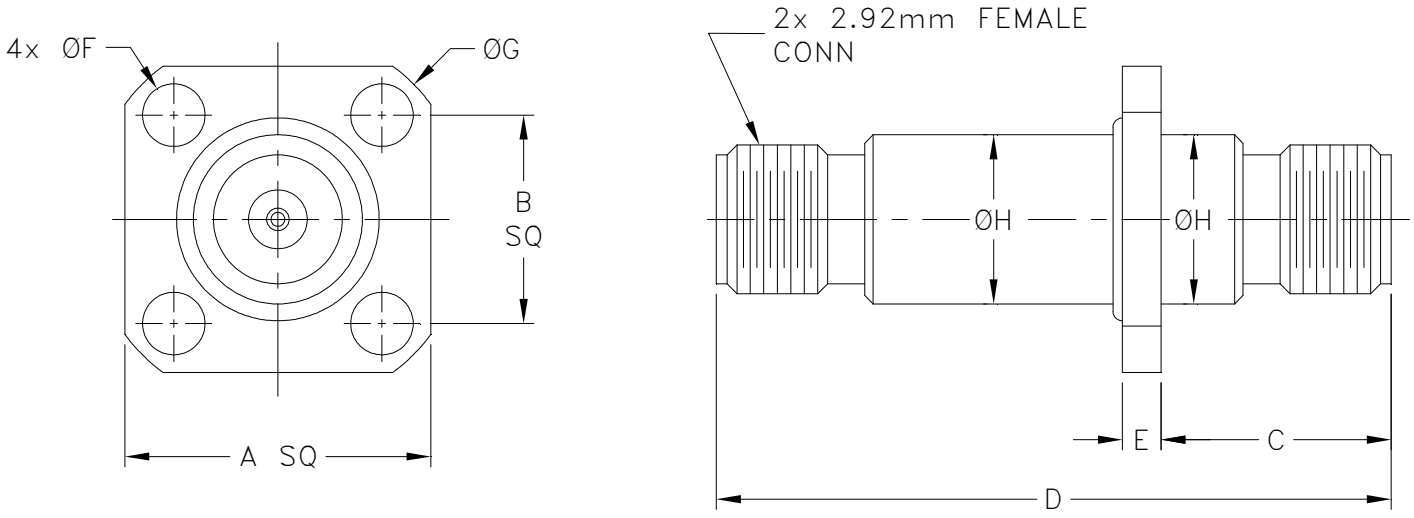




Case Style DJ

DJ2261

Outline Dimensions



CASE #	A	B	C	D	E	F	G	H	WT. GRAM
DJ2261	.50 (12.7)	.339 (8.6)	.38 (9.6)	1.10 (28.0)	.06 (1.6)	.102 (2.6)	.622 (15.8)	.276 (7.0)	5.6

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

Notes:

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

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Environmental Specifications ENV70

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	

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