Coaxial

Adapter *SMA-Fem to 2.92mm-Fem* SFR-KF50+

50Ω DC to 18 GHz

The Big Deal

- Ultra-wideband, DC-18 GHz
- Low insertion loss, 0.08 dB typ. up to 18 GHz
- Excellent VSWR, 1.12:1 typ. up to 18 GHz



CASE STYLE: DJ2442-6

Product Overview

Mini-Circuits' SFR-KF50+ is a right-angle SMA-Female to 2.92mm-Female adapter supporting a wide range of applications from DC to 18 GHz. 2.92mm connectors can mate with SMA connectors. This model provides excellent VSWR, low insertion loss, and flat response versus frequency. The SFR-KF50+ features brass alloy tri metal plated body and Gold-plated berillium copper construction center contact.

Key Features

Feature	Advantages
Wideband, DC to 18 GHz	Wide frequency range provides application flexibility and makes this model ideal for broadband and multi-band use.
Excellent VSWR • 1.12:1 typ. up to 18 GHz	Provides good matching for 50Ω systems and minimizes signal reflections across wide frequency range.
Low insertion loss • 0.08 dB typ. up to 18 GHz	Provides excellent signal power transmission from input to output.
Brass alloy tri metal plated body 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˚C	Withstands extreme operating conditions and is suitable for use near high power componentry where heat rise is common.

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/MCLStore/terms.jsp

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Connectors	Model
SMA-Fem to 2.92mm-Fem	SFR-KF50+

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

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C

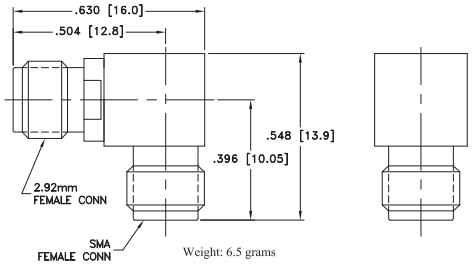
Permanent damage may occur if any of these limits are exceeded.

Features

- low insertion loss, 0.08 dB typ. up to 18 GHz
- excellent VSWR, 1.12:1 typ. up to 18 GHz
- low cost adapters, available from stock
- body brass alloy tri metal plated and gold-plated berillium copper center connector
- 2.92mm connector mates with SMA

Applications

Outline Dimensions



Dimensions are in inches [mm]. Tolerances: 2 Pl.±.03; 3 Pl. ±.015

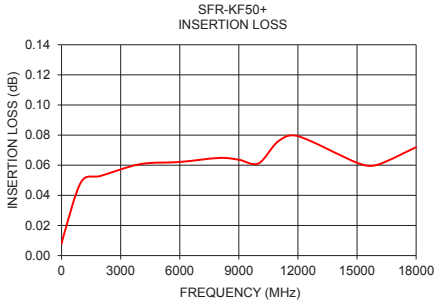
Note: Parts may be marked as SFR-SF50+ or as SFR-KF50+

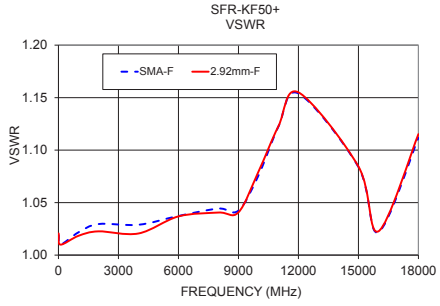
Electrical Specifications at 25°C

Parameter	Condition (GHz)	Min.	Typ.	Max.	Units
Frequency Range		DC		18	GHz
Insertion Loss	DC - 18	—	0.08	—	dB
VSWR	DC - 8	—	1.03	1.25	:1
	8 - 12	—	1.09	1.25	
	12 - 18	—	1.11	1.25	

Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
		SMA-Fem	2.92mm-Fem
10	0.01	1.02	1.02
100	0.01	1.01	1.01
1000	0.05	1.02	1.02
2000	0.05	1.03	1.02
4000	0.06	1.03	1.02
6000	0.06	1.04	1.04
8000	0.06	1.04	1.04
9000	0.06	1.04	1.04
10000	0.06	1.08	1.08
11000	0.08	1.12	1.12
12000	0.08	1.15	1.16
15000	0.06	1.08	1.08
16000	0.06	1.02	1.02
18000	0.07	1.11	1.12





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