ZLFW-K8000+

 50Ω DC to 8 GHz



Generic photo used for illustration purposes only CASE STYLE: UK3042

The Big Deal

- Good power handling, 2.5W
- Temperature stable
- Broadband connectorized package
- Good rejection, 40 dB typical

Product Overview

ZLFW-K8000+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-8 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFW-K8000+ offer low insertion loss, and good power handling capability. It handles up to 2.5W RF input power and provides a wide operating temperature range from -55°C to 125°C.

Key Features

Feature	Advantages	
Low passband insertion loss	Suitable for high performance application.	
2.5W Power handling	Supports a range of system power requirements.	
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.	

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"); Puchasers 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

Low Pass Filter

DC to 8 GHz 50Ω

ZLFW-K8000+



Generic photo used for illustration purposes only

CASE STYLE: UK3042 Connectors Model 2.92mm-F ZLFW-K8000+

+RoHS Compliant

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

Тур.

2.0

3.0

13

40

36

31

Max.

3.1

Unit

dB

dΒ

dΒ

dB

dΒ

dB

dΒ

Min.

20

26

22

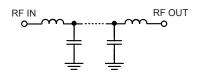
Features

- · Good rejection 40dB typ.
- Temperature stable

Applications

- Military radios
- Point-Point communication
- 5G Sub 6 GHz
- WiFi
- ISM band

Functional Schematic





Parameter

Stop Band

Insertion Loss

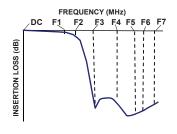
Freq. Cut-Off

Return Loss

Rejection Loss

*Passband rating, derate linearly to 0.7W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

Typical Frequency Response



Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC - 8000

8900

DC - 8000

11000 - 12000

12000 - 15500

15500 - 21000

21000 - 26500

F#

DC-F1

F2*

DC-F1

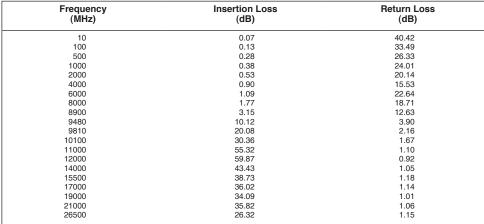
F3-F4

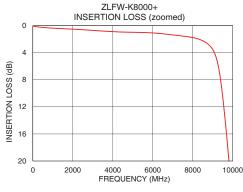
F4-F5

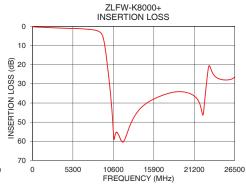
F5-F6

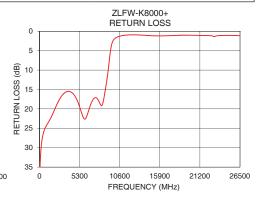
F6-F7

In Applications where DC voltage is present at either input or output ports, DC blocks are required









- 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.

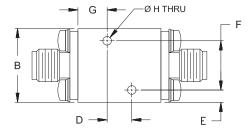
 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

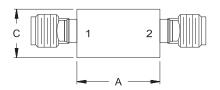
 C. The parts covered by this specification document are subject to Mini-Circuits standard limited warrantly and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

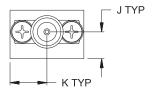
Coaxial Connections

PORT - 1	2.92mm-Female	
PORT - 2	2.92mm-Female	

Outline Drawing







Outline Dimensions (inch)

F	Е	D	С	В	Α
.400	.10	.200	.39	.60	.68
10.16	2.5	5.08	10.0	15.2	17.1
Wt.		K	J	Н	G
grams		.30	.22	.070	.24
24		7.6	5.5	1.78	6.0

Note: Please refer to case style drawing for details

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 vist Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

