ZLFW-K123+

 50Ω DC to 12 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, 38 dB typical

Product Overview

ZLFW-K123+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-12 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFW-K123+ offer low insertion loss, and excellent 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.		

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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

 50Ω DC to 12 GHz

ZLFW-K123+



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CASE STYLE: UK3042 Connectors Model 2.92mm-F ZLFW-K123+

+RoHS Compliant

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

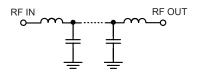
Features

- · Good rejection, 38dB typ.
- Temperature stable

Applications

- Test and measurements
- · Telecommunications and broadband wireless system
- · Military applications
- Satcom modems

Functional Schematic



Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 12000	_	1.8	2.9	dB
Pass Band	Freq. Cut-Off	F2*	13800	_	3.0	_	dB
	Return Loss	DC-F1	DC - 12000	_	11	_	dB
	top Band Rejection Loss	F3-F4	16300 - 18500	20	38	_	dB
Cton Bond		F4-F5	18500 - 22000	25	36	_	dB
Stop Band		F5-F6	22000 - 25000	23	34	_	dB
			25000 - 26500	_	20	_	dB

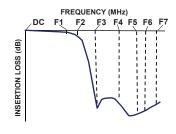
Electrical Specifications at 25°C

^{*} Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

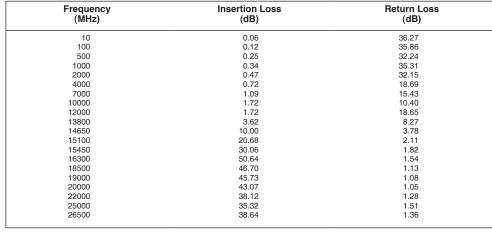
Maximum Ratings				
Operating Temperature	-55°C to 125°C			
Storage Temperature	-55°C to 125°C			
RF Power Input*	2.5W max.@25°C			

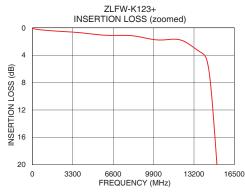
^{*}Passband rating, derate linearly to 0.7W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

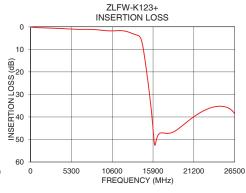
Typical Frequency Response



Typical Performance Data at 25°C









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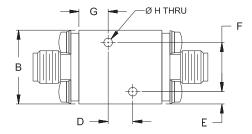
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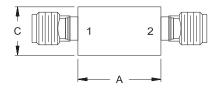
In Applications where DC voltage is present at either input or output ports, DC blocks are required.

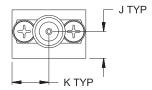
Coaxial Connections

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

Outline Drawing







Outline Dimensions (inch mm)

F	E	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

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