ZLFW-K5500+

 50Ω DC to 5.5 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, 39 dB typical

Product Overview

ZLFW-K5500+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-5.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFW-K5500 + 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.

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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"); 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

Features

Low Pass Filter

 50Ω DC to 5.5 GHz

ZLFW-K5500+



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CASE STYLE: UK3042 Connectors Model 2.92mm-F ZLFW-K5500+

+RoHS Compliant

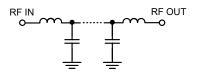
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

- **Applications** · Military radios
- 5G Sub 6 GHz
- Point-Point communication

· Good rejection 39dB typ.

• Temperature stable

Functional Schematic



Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 5500	_	1.6	2.4	dB
Pass Band	Freq. Cut-Off	F2*	6320	_	3.0	_	dB
	Return Loss	DC-F1	DC - 5500	_	11	_	dB
Stop Band	Rejection Loss	F3-F4	7600 - 8100	20	35	_	dB
		F4-F5	8100 - 11500	28	39	_	dB
		F5-F6	11500 - 17000	24	36	_	dB
		F6-F7	17000 - 26500	_	18	_	dB

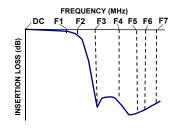
In Applications where DC voltage is present at either input or output ports, DC blocks are required.

^{*} 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		

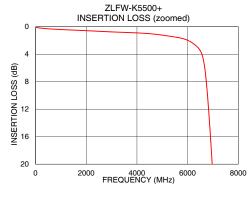
^{*}Passband rating, derate linearly to 0.7W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

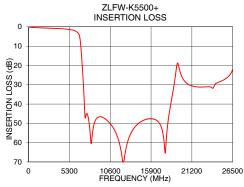
Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
10	0.08	39.51		
100	0.15	32.39		
500	0.30	25.43		
1000	0.41	23.39		
2000	0.58	19.66		
3000	0.75	17.91		
5000	1.23	18.71		
5500	1.50	17.66		
6320	2.74	13.10		
6980	20.69	2.16		
7140	31.30	1.70		
7600	45.03	1.29		
8100	59.92	1.10		
8600	49.19	0.96		
9500	46.72	0.79		
11500	56.58	0.80		
14000	51.07	1.03		
17000	50.06	0.86		
20000	26.62	0.91		
26500	21.88	1.22		







Notes
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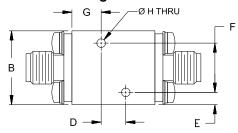
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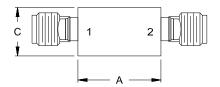
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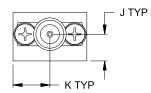
Coaxial Connections

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

Outline Drawing







Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details

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