Coaxial **Low Pass Filter**

50Ω

DC to 7.5 GHz

ZLFW-K7500+



The Big Deal

- Good power handling, 2.5W
- Temperature stable
- Broadband connectorized package
- Good rejection, 37 dB typical

Generic photo used for illustration purposes only CASE STYLE: UK3042

Product Overview

ZLFW-K7500+ is a 50Ω low pass filter built in broadband connectorized package. Covering DC-7.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZLFW-K7500 + 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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Coaxial Low Pass Filter

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Features

- Good rejection 37dB typ.
- Temperature stable





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CASE STYLE: UK3042 Connectors Model 2.92mm-F ZLFW-K7500+

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

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 7500	—	1.8	3.1	dB
Pass Band	Freq. Cut-Off	F2*	8400	_	3.0	_	dB
	Return Loss	DC-F1	DC - 7500	_	12	_	dB
Stop Band	Rejection Loss	F3-F4	9900 - 10600	20	37	_	dB
		F4-F5	10600 - 15000	26	36	_	dB
		F5-F6	15000 - 20000	20	31	_	dB
		F6-F7	20000 - 26500	_	23	—	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 Performance Data at 25°C

Typiour renormance Data at 20 0					
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)			
10	0.07	39.99			
100	0.13	33.68			
500	0.28	26.81			
1000	0.38	24.69			
2000	0.53	20.56			
4000	0.92	15.03			
6000	1.26	16.35			
7500	1.75	25.22			
8400	3.98	15.05			
8740	10.16	5.27			
9040	20.63	2.86			
9240	29.66	2.26			
9900	39.61	1.45			
10600	44.92	1.10			
12000	48.24	0.92			
15000	36.55	1.08			
17000	34.14	0.98			
20000	32.17	0.98			
22000	28.70	1.11			
26500	26.56	1.11			



Notes
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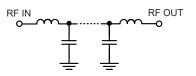
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

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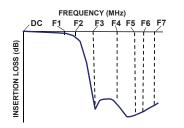
• Military radios

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

Functional Schematic



Typical Frequency Response

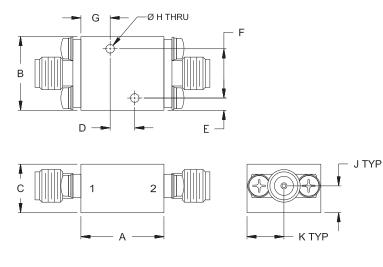


ZLFW-K7500+

Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

A	B	C	D	E	F
.68	.60	.39	.200	.10	.400
17.1	15.2	10.0	5.08	2.5	10.16
G	H	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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