

Coaxial High Pass Filter

ZHFW-K9500+

50Ω 10500 to 20000 MHz



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, 43 dB typical

Product Overview

ZHFW-K9500+ is a 50Ω high pass filter built in broadband connectorized package. Covering 10500-20000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFW-K9500+ 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.

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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Features

- Very good rejection, 43dB typ.
- Temperature stable

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Connectors Model
2.92mm-F ZHFW-K9500+

+RoHS Compliant

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

Applications

- Test and measurements
- Military applications
- Telecommunications and broadband wireless systems

Electrical Specifications at 25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss	DC-F1	DC - 6000	35	43	-	dB
		F1-F2	6000 - 7800	23	36	-	dB
	Freq. Cut-Off	F3*	9650	-	3.0	-	dB
Pass Band	Insertion Loss	F4-F5	10500 - 12000	-	2.2	-	dB
		F5-F6	12000 - 17500	-	1.6	2.3	dB
		F6-F7	17500 - 20000	-	2.0	-	dB
	Return Loss	F4-F5	10500 - 12000	-	11	-	dB
		F5-F6	12000 - 17500	-	13	-	dB
		F6-F7	17500 - 20000	-	12	-	dB

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

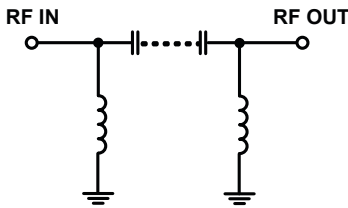
* Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings

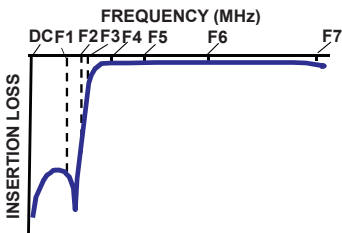
Operating Temperature	-55°C to 125°C
Storage Temperature	-55°C to 125°C
RF Power Input*	2.5W max. @25°C

*Passband rating, derate linearly to 0.6W at 125°C ambient
Permanent damage may occur if any of these limits are exceeded.

Functional Schematic

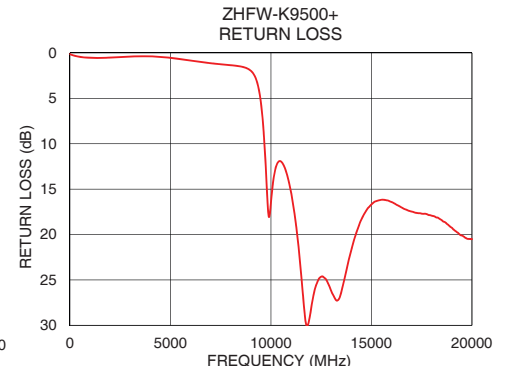
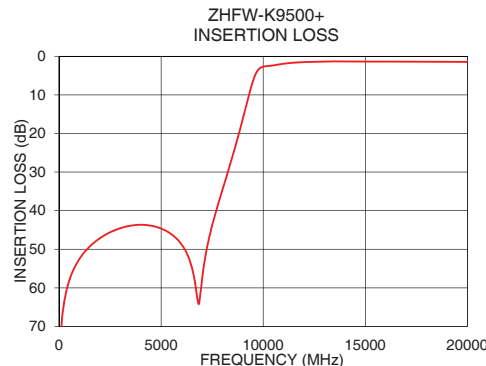
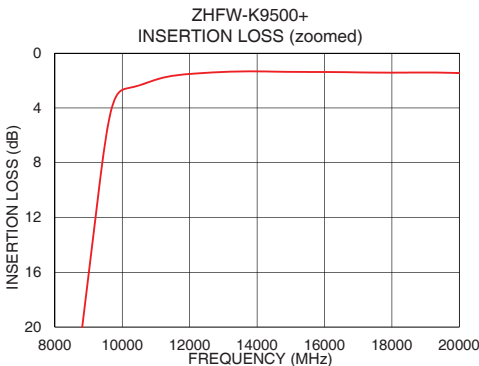


Typical Frequency Response



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	77.08	0.12
500	58.11	0.43
1000	52.51	0.53
2000	47.14	0.50
3000	44.56	0.39
4000	43.65	0.37
6000	48.75	0.83
7800	38.19	1.31
8250	30.31	1.41
8800	20.21	1.68
9300	10.09	3.14
9650	4.38	9.12
10500	2.36	11.96
12000	1.52	28.15
13000	1.38	26.23
14000	1.33	21.70
15000	1.37	16.69
16000	1.38	16.42
17500	1.42	17.70
20000	1.46	20.51



Notes

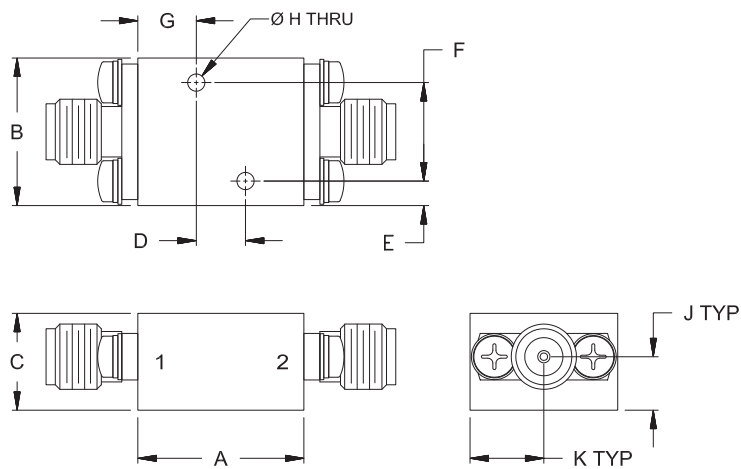
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Coaxial Connections

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

Outline Drawing



Outline Dimensions ($\frac{\text{inch}}{\text{mm}}$)

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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