ZHFW-K5000+

50Ω 5.5 to 20 GHz 2.92mm Female

KEY FEATURES

- · Low Insertion Loss, 1.4 dB Typ.
- · Return Loss, 12 dB Typ.
- Stop Band Rejection, 45 dB Typ.
- Broadband Connectorized Package.
- Power Handling: 1.75 Watts

APPLICATIONS

- Test and Measurement Equipment
- Military Applications.
- Telecommunications and Broadband Wireless Systems.

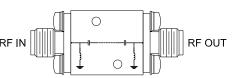


Generic photo used for illustration purposes only

PRODUCT OVERVIEW

ZHFW-K5000+ is a 50ohm high pass filter built in broad band connectorized package. Covering 5.5-20 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFW-K5000+ offer low insertion loss, and excellent power handling capability. It handles up to 1.75W RF input power and provides a wide operating temperature range from -55°C to 125°C.

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS^{1,2} AT +25°C

Parameter		F#	Frequency (GHz)	Min.	Тур.	Max.	Units
Pass Band	Insertion Loss	F3-F4	5.5 - 7	_	2.4	_	
		F4-F5	7- 13.5	_	1.4	1.8	dB
		F5-F6	13.5 - 20	_	2	_	
	Return Loss	F3-F4	5.5 - 20	_	12	_	dB
Stop Band	Rejection	DC-F1	DC - 3	39	45	_	.ID
		F1-F2	3 - 4	20	40	_	dB
	Freq. Cut-Off ³	Fc ³	5	_	3	_	dB

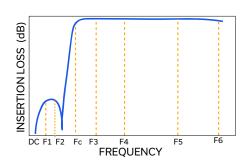
- 1. This filter is bi-directional, RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.
- 2. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required.
- 3. Typical variation ± 5%

ABSOLUTE MAXIMUM RATINGS⁴

Parameter	Ratings		
Operating Temperature	-55 °C to +125 °C		
Storage Temperature	-55 °C to +125 °C		
Input Power ⁵	1.75 W @25°C		

- 4. Permanent damage may occur if any of these limits are exceeded.
- 5. Power rating applies only to signals within the passband. Power rating above $+25^{\circ}\text{C}$ operating temperature decreases linearly to 0.5W at $+125^{\circ}\text{C}$.

TYPICAL FREQUENCY RESPONSE



PAGE 1 OF 4

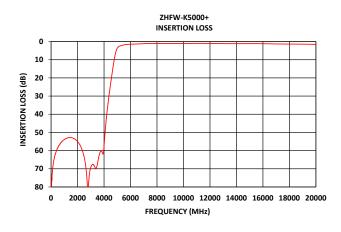


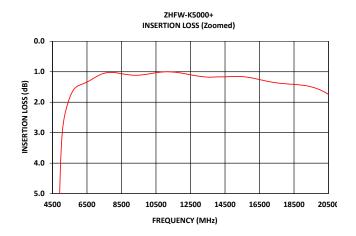
High Pass Filter

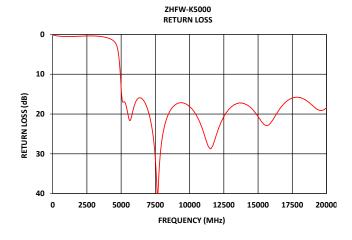
ZHFW-K5000+

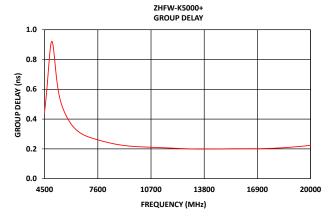
 50Ω 5.5 to 20 GHz 2.92mm Female

TYPICAL PERFORMANCE GRAPHS









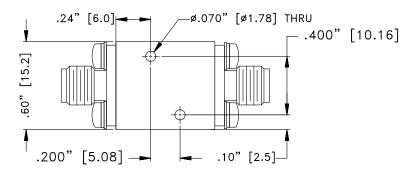
ZHFW-K5000+

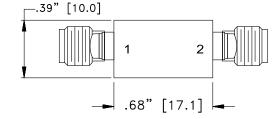
50Ω 5.5 to 20 GHz 2.92mm Female

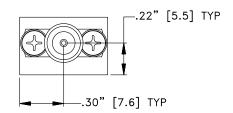
CONNECTOR DESCRIPTION

Function	Marking on Unit	Connector
RF1 ¹	1	2.92mm Female
RF2 ¹	2	2.92mm Female

CASE STYLE DRAWING







Unit weight: 24grams

Dimensions are in inches (mm). Tolerances: 2 Pl.±.050"; 3 Pl.±.015"

PRODUCT MARKING*: ZHFW-K5000+

*Marking may contain other features or characters for internal lot control.



ZHFW-K5000+

5.5 to 20 GHz 2.92mm Female

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

CLICK HERE

	Data		
Performance Data & Graphs	Graphs		
	S-Parameter (S2P Files) Data Set (.zip file)		
Case Style	UK3042		
RoHS Status	Compliant		
Environmental Ratings	ENV124		

- 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-Circuits' 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/terms/viewterm.html



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mini-Circuits:

ZHFW-K5000+