

ZHFW-K133+

Mini-Circuits 50 Ω 14.2 to 20.5 GHz 2.92mm Female

KEY FEATURES

- Low Insertion Loss, 1.7 dB Typ.
- Return Loss, 10 dB Typ.
- Stop Band Rejection, 35 dB Typ.
- Broadband Connectorized Package.
- Power Handling: 2.5 Watts

APPLICATIONS

- Test and Measurement Equipment
- Radar, EW, and ECM Dfense Systems
- Back Haul Radio Systems



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM

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RF IN

RF OUT

PRODUCT OVERVIEW

ZHFW-K133+ is a 500hm high pass filter built in broad band connectorized package. Covering 14.2-20.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFW-K133+ offer low insertion loss, and excellent power handling capability. It handles up to 2.5 W RF input power and provides a wide operating temperature range from -55°C to 125°C.

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

Parameter		F#	Frequency (GHz)	Min.	Тур.	Max.	Units
Pass Band	Insertion Loss	F3-F4	14.2 - 16.5	_	2.5	_	
		F4-F5	16.5 - 19.5	_	1.7	2.4	dB
		F5-F6	19.5 - 20.5	_	1.7	-	
	Return Loss	F3-F4	14.2 - 16.5	_	8	_	dB
		F4-F5	16.5 - 19.5	—	10	-	
		F5-F6	19.5 - 20.5	_	8	-	
	Rejection	DC-F1	DC - 8.5	30	35	_	JD
Stop Band		F1-F2	8.5 - 10.2	24	32	-	dB
	Freq. Cut-Off ³	Fc ³	13.3	_	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

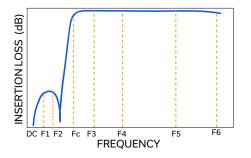
Parameter	Ratings		
Operating Temperature	-55 °C to +125°C		
Storage Temperature	-55 °C to +125°C		
Input Power ⁵	2.5 W @25°C		

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°C operating temperature decreases linearly to 0.6W at +125°C.

TYPICAL FREQUENCY RESPONSE



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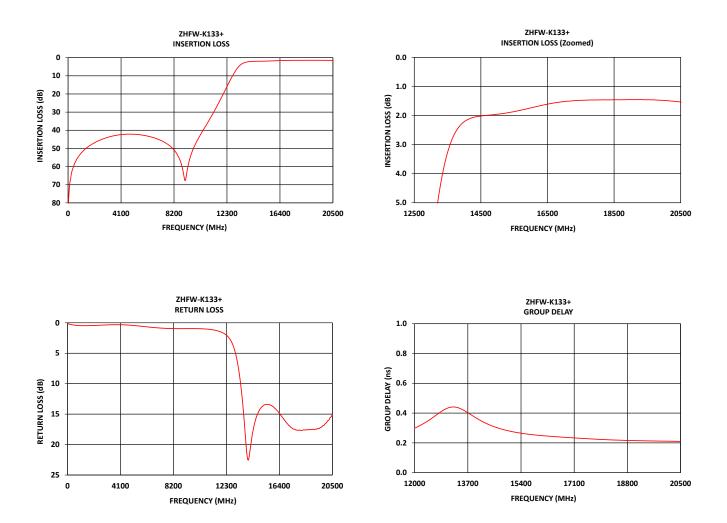


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TYPICAL PERFORMANCE GRAPHS



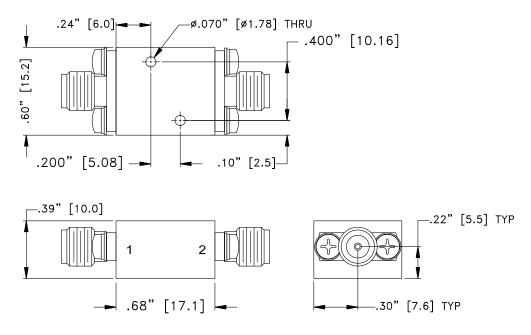


ZHFW-K133+

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-K133+

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



High Pass Filter



Mini-Circuits

50Ω 14.2 to 20.5 GHz 2.92mm Female

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

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

CLICK HERE

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-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

