(LTCC) COAXIAL

High Pass Filter

ZHFW-K9000+

50Ω 10 to 19.5 GHz 2.92mm Female

KEY FEATURES

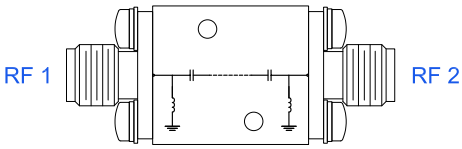
- Low Insertion Loss, 1.7 dB Typ.
- Return Loss, 11 dB Typ.
- Stopband Rejection, 42 dB Typ.
- Broadband Connectorized Package.
- Power Handling: 2.5 Watts

Generic photo used for illustration purposes only

APPLICATIONS

- X Band Satellite
- Cellular Backhaul
- X Band Radar
- Test and Measurement

FUNCTIONAL DIAGRAM



PRODUCT OVERVIEW

ZHFW-K9000+ is a 50Ω high pass filter built in broad band connectorized package. Covering 10-19.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFW-K9000+ 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.	Typ.	Max.	Units
Passband	Insertion Loss	F3-F4	10 - 11.5	—	2.4	—	dB
		F4-F5	11.5 - 17	—	1.7	2.3	
		F5-F6	17 - 19.5	—	1.7	—	
	Return Loss	F3-F4	10 - 11.5	—	12	—	dB
		F4-F5	11.5 - 17	—	13	—	
		F5-F6	17 - 19.5	—	11	—	
Stopband	Rejection	DC-F1	DC - 6	32	42	—	dB
		F1-F2	6 - 7.2	23	37	—	
	Freq. Cut-Off[3]	Fc	9.1	—	3	—	dB

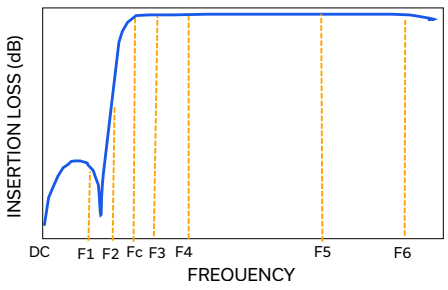
1. This filter is bi-directional, RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.
2. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required.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

ABSOLUTE MAXIMUM RATINGS[4]

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 0.6 W at +125°C.

TYPICAL FREQUENCY RESPONSE



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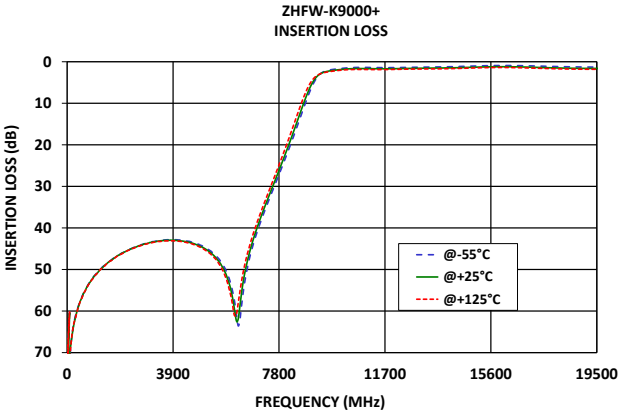
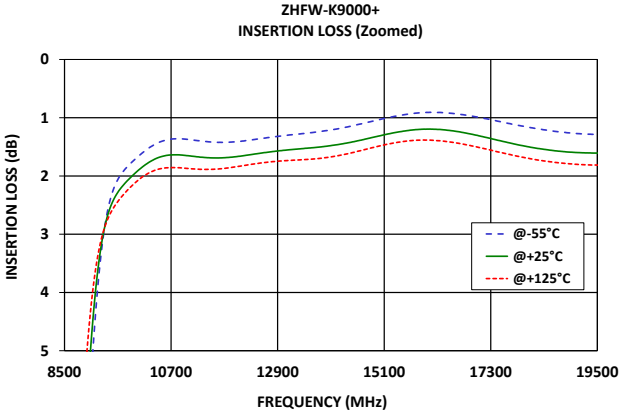
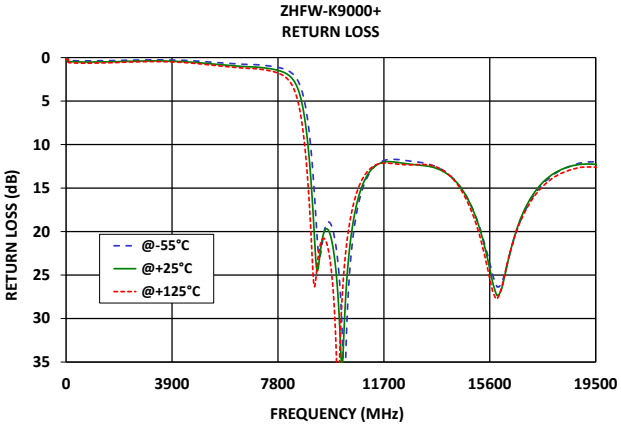
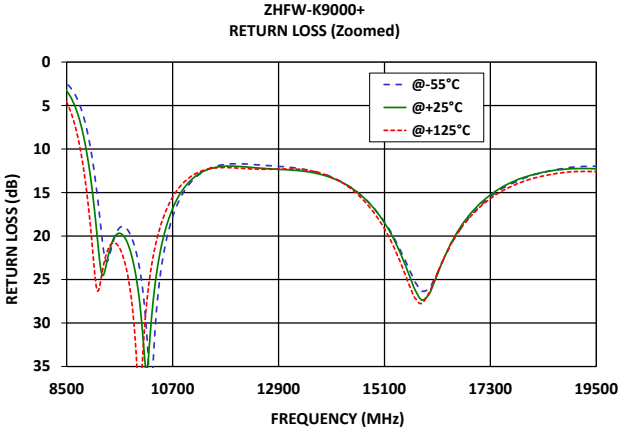
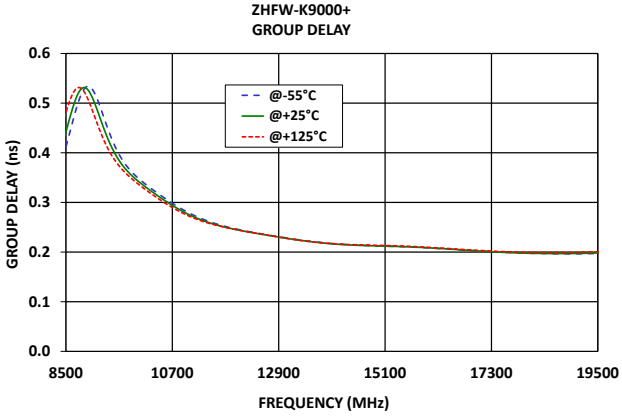
TYPICAL PERFORMANCE GRAPHS











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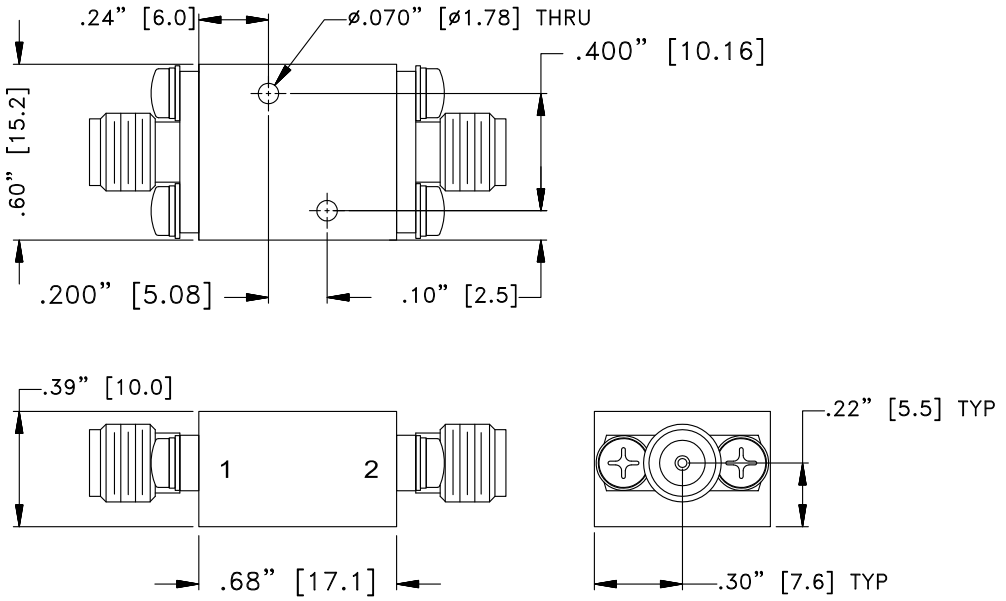
CONNECTOR DESCRIPTION

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-K9000+

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

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ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD CLICK HERE

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

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.
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