



LTCC COAXIAL

Bandpass Filter

ZBFHK-K4951+

50Ω 4300 to 5300 MHz 2.92mm Female

KEY FEATURES

- Low Insertion Loss, 3.8 dB Typ.
- Return Loss, 13 dB Typ.
- Stopband Rejection, 82 dB Typ.
- Broadband Connectorized Package
- Power Handling: 1 Watts

APPLICATIONS

- Ku Band Satellite
- Telecom

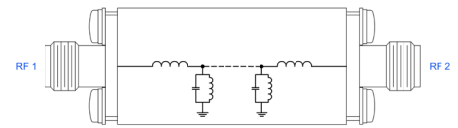
PRODUCT OVERVIEW

ZBFHK-K4951+ is a 50Ω band pass filter built in broad band connectorized package. Covering 4300-5300 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZBFHK-K4951+ offer low insertion loss, and excellent power handling capability. It handles up to 1 W RF input power and provides a wide operating temperature range from -55°C to 125°C.



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS¹ AT +25°C

Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Center Frequency ²	—	—	—	4800	—	MHz
	Insertion Loss	F1-F2	4300 - 5300	—	3.8	5.0	dB
	Return Loss	F1-F2	4300 - 5300	—	13	—	dB
Stopband, Lower	Rejection	DC-F3	100 - 2800	70	82	—	dB
Stopband, Upper	Rejection	F4-F5	6700 - 12300	60	73	—	dB

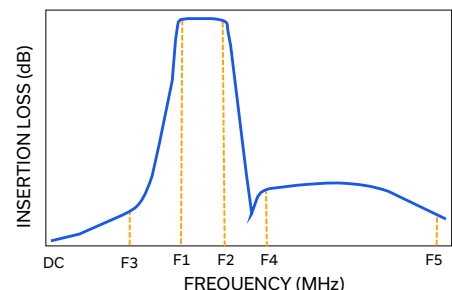
1. This component should not be used as a DC-block. In applications where DC voltage and/or current is present at either the input or output ports, external DC blocking capacitors are required.
 2. Typical variation $\pm 5\%$

ABSOLUTE MAXIMUM RATINGS³

Parameter	Ratings
Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
Input Power	1 W

3. Permanent damage may occur if any of these limits are exceeded.

TYPICAL FREQUENCY RESPONSE





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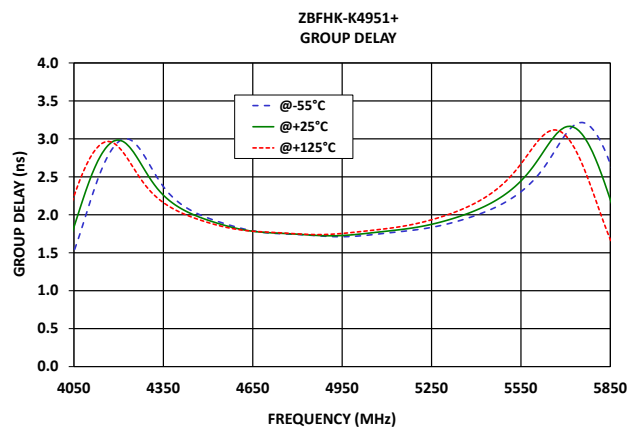
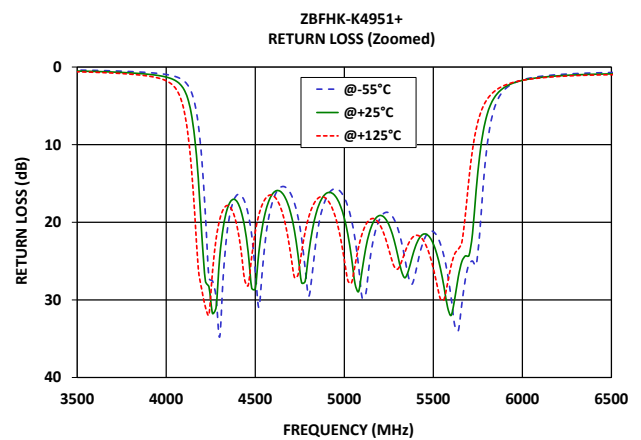
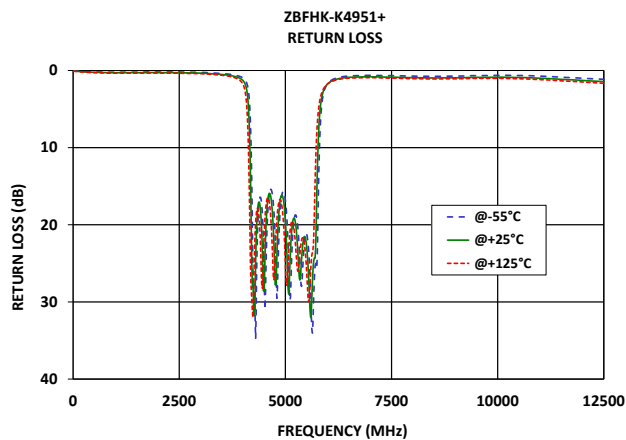
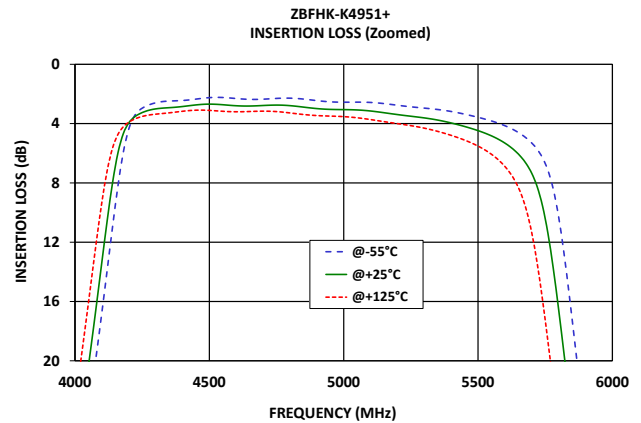
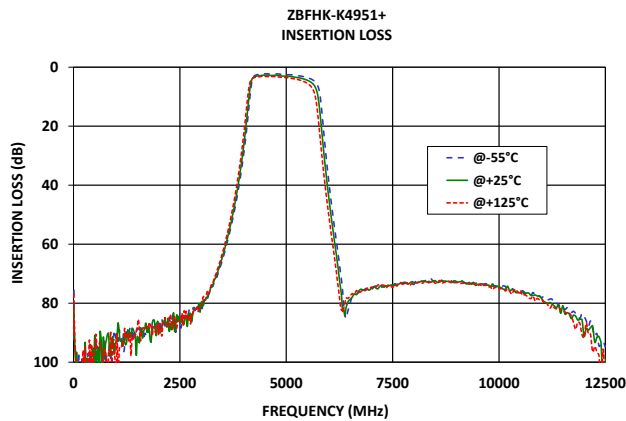
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TYPICAL PERFORMANCE GRAPHS





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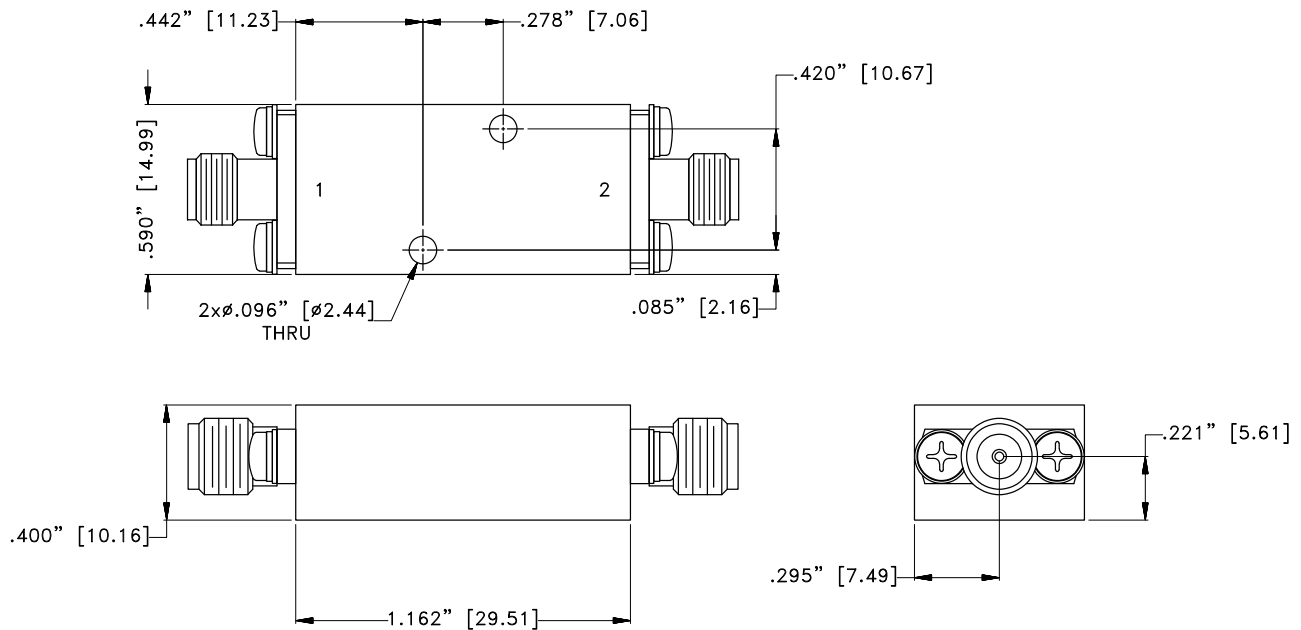
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CONNECTOR DESCRIPTION

Function	Connector
RF1 ⁴	2.92mm Female
RF2 ⁴	2.92mm Female

4. This filter is bi-directional, RF1 and RF2 ports may be interchanged, see S-Parameters for actual performance.

CASE STYLE DRAWING



Weight: 37 grams

Dimensions are in inches (mm). Tolerances: 2Pl ± .030 [.76]; 3Pl ± .015 [.38]

PRODUCT MARKING*: ZBFHK-K4951+

*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	BBW3851
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.
- 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

