



(LTCC) COAXIAL

## High Pass Filter

ZHFG-K3250+

50Ω 3.65 to 16.5 GHz 2.92mm Female

## KEY FEATURES

- Low Insertion Loss, 1.8 dB Typ.
- Return Loss, 12 dB Typ.
- Stop Band Rejection, 46 dB Typ.
- Broadband Connectorized Package.
- Power Handling: 3 Watts

## APPLICATIONS

- Test and Measurement Equipment.
- SATCOM.
- 5G MIMO and Back Haul Radio Systems.
- WiFi 6E.

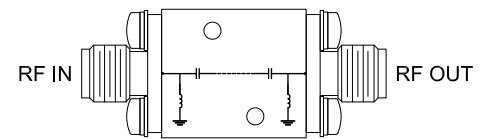


Generic photo used for illustration purposes only

## PRODUCT OVERVIEW

ZHFG-K3250+ is a 50ohm high pass filter built in broad band connectorized package. Covering 3.65-16.5 GHz bandwidth, these units offer good matching within the passband and good rejection in stopband. ZHFG-K3250+ offer low insertion loss, and excellent power handling capability. It handles up to 3 W RF input power and provides a wide operating temperature range from -55°C to 125°C.

## FUNCTIONAL DIAGRAM

ELECTRICAL SPECIFICATIONS<sup>1,2</sup> AT +25°C

Parameter		F#	Frequency (GHz)	Min.	Typ.	Max.	Units
Pass Band	Insertion Loss	F3-F4	3.65 - 4.3	—	2.0	—	dB
		F4-F5	4.3 - 5.5	—	1.3	2.0	
		F5-F6	5.5 - 14.1	—	1.1	1.8	
		F6-F7	14.1-16.5	—	2.2	—	
	Return Loss	F3-F4	3.65 - 16.5	—	11	—	dB
Stop Band	Rejection	DC-F1	DC - 2	38	46	—	dB
		F1-F2	2 - 2.5	27	39	—	
	Freq. Cut-Off <sup>3</sup>	Fc <sup>3</sup>	3.25	—	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  $\pm 5\%$

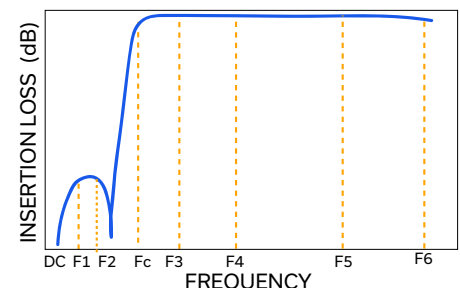
ABSOLUTE MAXIMUM RATINGS<sup>4</sup>

Parameter	Ratings
Operating Temperature	-55 °C to +125 °C
Storage Temperature	-55 °C to +125 °C
Input Power <sup>5</sup>	3 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 AT +25°C





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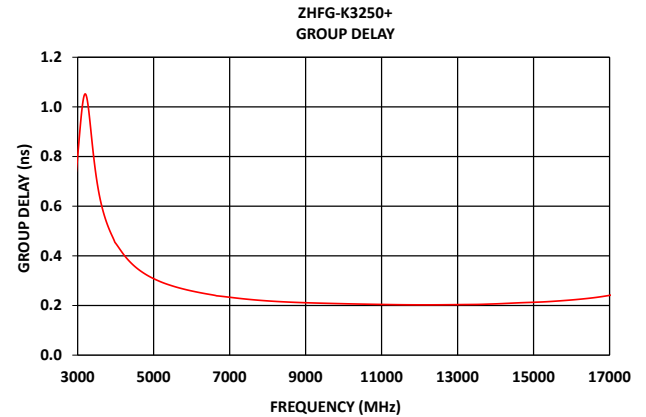
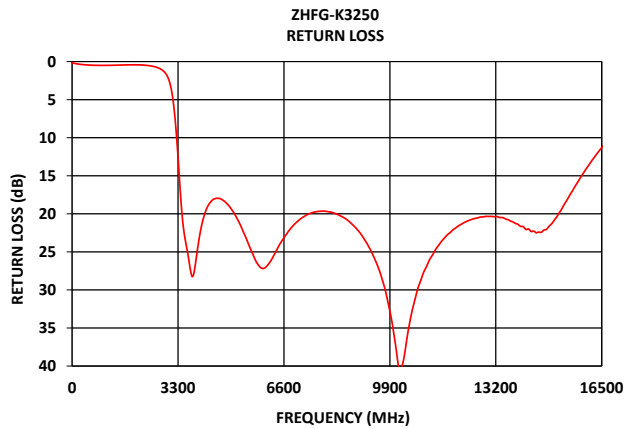
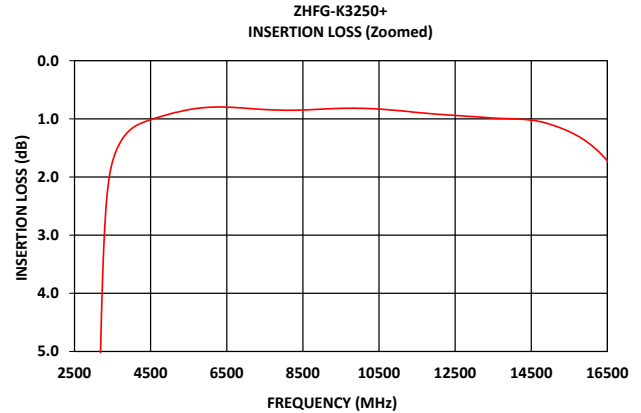
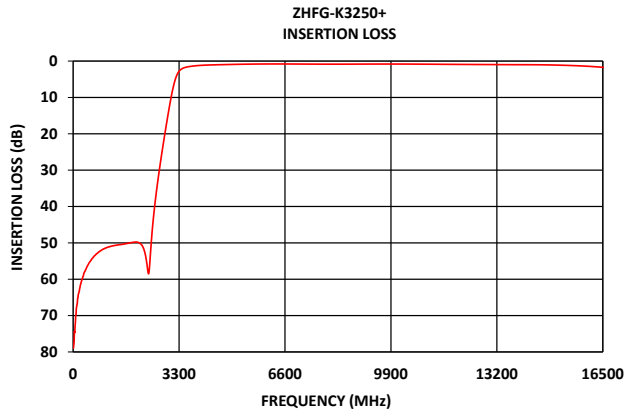
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Mini-Circuits

50 $\Omega$  3.65 to 16.5 GHz 2.92mm Female

## TYPICAL PERFORMANCE GRAPHS





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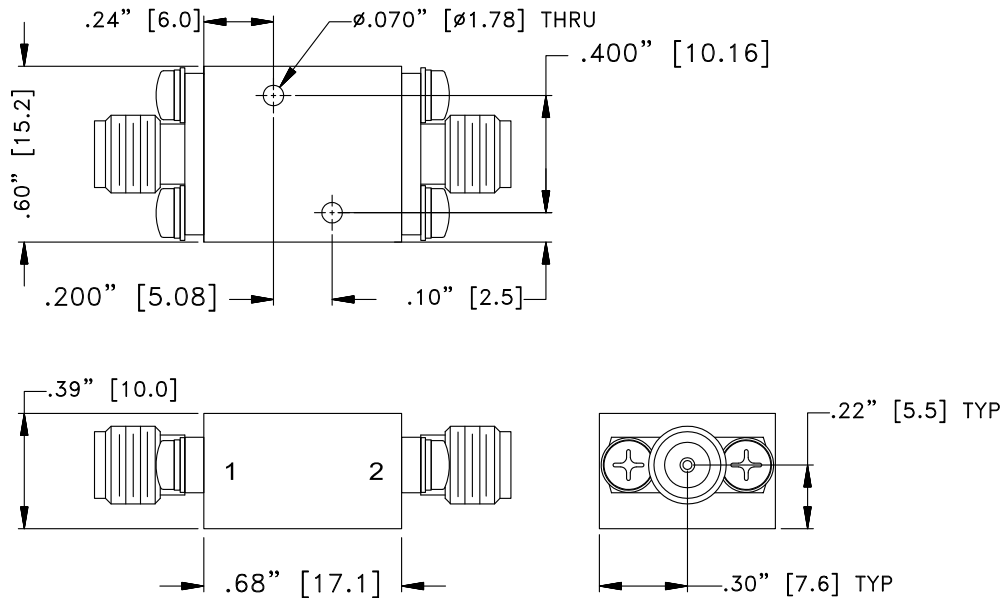
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## CONNECTOR DESCRIPTION

Function	Marking on Unit	Connector
RF1 <sup>1</sup>	1	2.92mm Female
RF2 <sup>1</sup>	2	2.92mm Female

## CASE STYLE DRAWING



Unit weight: 24grams

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

## PRODUCT MARKING\*: ZHFG-K3250+

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



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50Ω 3.65 to 16.5 GHz 2.92mm Female

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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