Mini-Circuits

Bandpass Filter

THIN FILM COAXIAL

ZABF-K7125+

50Ω

6750 to 7500 MHz 2.92mm Female

KEY FEATURES

- Low Passband Insertion Loss 2.1 dB Typ.
- High Rejection 53 dB Typ.
- Small Size

APPLICATIONS

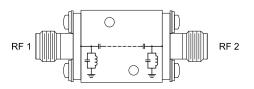
- Wireless Communication Systems
- Military and Defense
- Test and Measurement

PRODUCT OVERVIEW

Mini-Circuits' Connectorized Thin-Film filters offer low insertion loss and high rejection realized via Thin-Film on Alumina substrate, using a sputtering process that can guarantee an enhanced Q and repeatable performance. Low pass, high pass, and bandpass connectorized thin-film designs can be realized with this technology up to 40 GHz in a small form factor helping customers achieve their SWaP objectives. Using our high quality thin-film manufacturing process we can guarantee repeatability on large batches of filters.

FUNCTIONAL DIAGRAM

Generic photo used for illustration purposes only



ELECTRICAL SPECIFICATIONS AT¹ +25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Units
Passband	Center Frequency ²	—	—	—	7125	—	MHz
	Insertion Loss	F1-F2	6750 - 7500	—	2.1	3	dB
	Return Loss	F1-F2	6750 - 7500	_	12	_	dB
Stopband, Lower	Rejection	DC-F3	DC - 5250	40	53	_	٩D
		F3-F4	5250 - 5800	20	37	_	dB
Stopband, Upper	Rejection	F5-F6	8500 - 9000	20	45	_	
		F6-F7	9000 - 13000	38	46	_	dB
		F7-F8	13000 - 14000	_	40	_	

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

2. Typical variation ± 3%

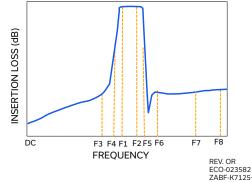
ABSOLUTE MAXIMUM RATINGS³

Parameter	Ratings		
Operating Temperature	-55 °C to +125 °C		
Storage Temperature	-55 °C to +125 °C		
Input Power ⁴	1W Max. at 25 °C		

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

4. Power rating applies only to signals with in the passband.

TYPICAL FREQUENCY RESPONSE AT+25°C



ZABF-K7125+ EDU4485 URJ 241120



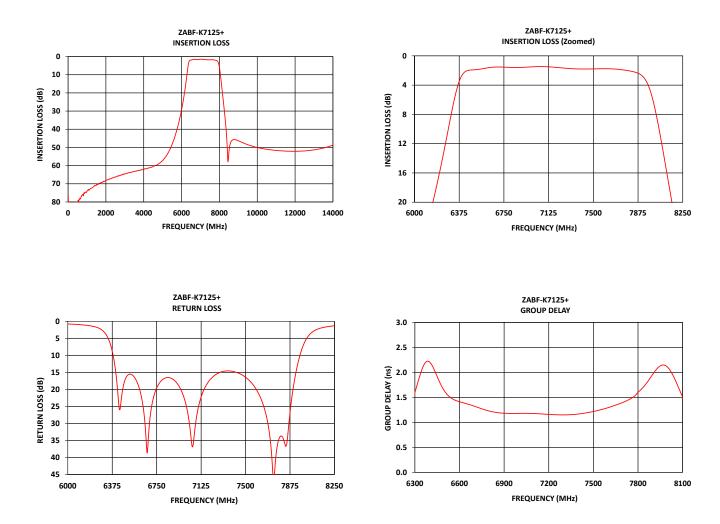


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TYPICAL PERFORMANCE GRAPHS AT+25°C





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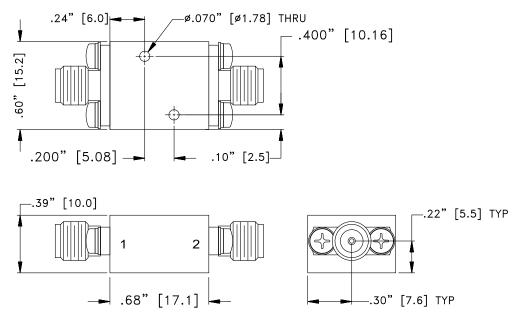
6750 to 7500 MHz 2.92mm Female

CONNECTOR DESCRIPTION

50Ω

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*: ZABF-K7125+

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



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CLICK HERE

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	ENV144

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

