



Mini-Circuits

LUMPED LC COAXIAL

Bandpass Filter

ZX75BP-140-S+50 Ω 130 to 150 MHz SMA-Male to SMA-Female

KEY FEATURES

- Insertion Loss, 3.5dB Max.
- Stop Band Return Loss, 17dB Typ.
- Stop Band Rejection, 45dB Typ.

APPLICATIONS

- Aircraft Communication
- Space Research
- Defense System
- Satellite

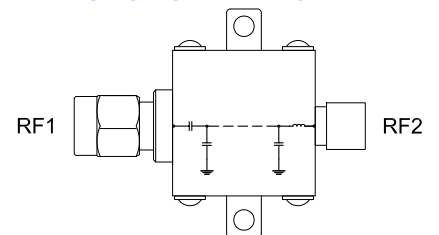
PRODUCT OVERVIEW

ZX75BP-140-S+ is a 50 Ω bandpass filter in a connectorized package covering 130 to 150MHz. This offers good matching within the passband and high rejection in stopband.



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	Fc	—	—	140	—	MHz
	Insertion Loss	F1-F2	130 - 150	—	—	3.5	dB
	Return Loss	F1-F2	130 - 150	12	17.5	—	dB
Stop Band, Lower	Rejection	DC-F3	DC - 40	35	45	—	dB
		F3-F4	40 - 100	20	29	—	
Stop Band, Upper	Rejection	F5-F6	180 - 300	20	27	—	dB
		F6-F7	300 - 1500	35	45	—	
		F7-F8	1500 - 6000	—	30	—	
Maximum Deviation from Linear Phase		Fc ±15MHz	125 - 155		±9	±14	deg

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

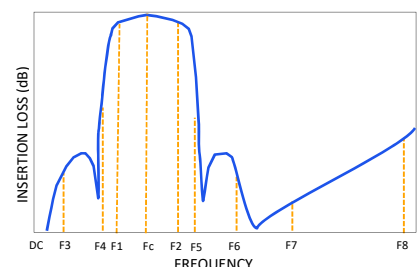
ABSOLUTE MAXIMUM RATINGS²

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Input Power ³	0.3W max.

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

3. Power rating applies only to signals within the passband.

TYPICAL FREQUENCY RESPONSE AT +25°C



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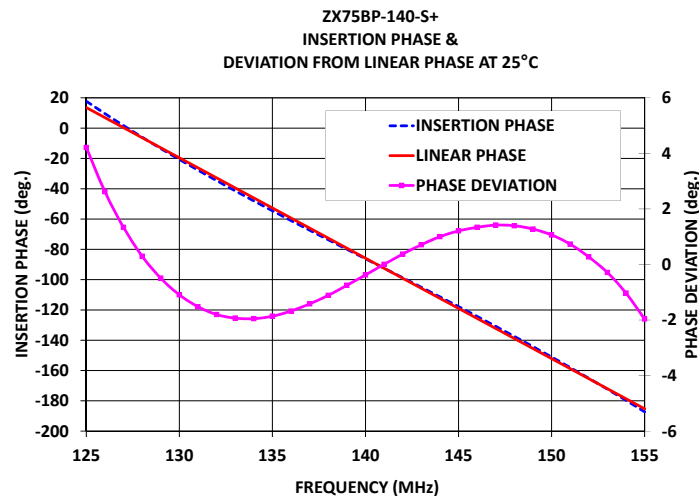
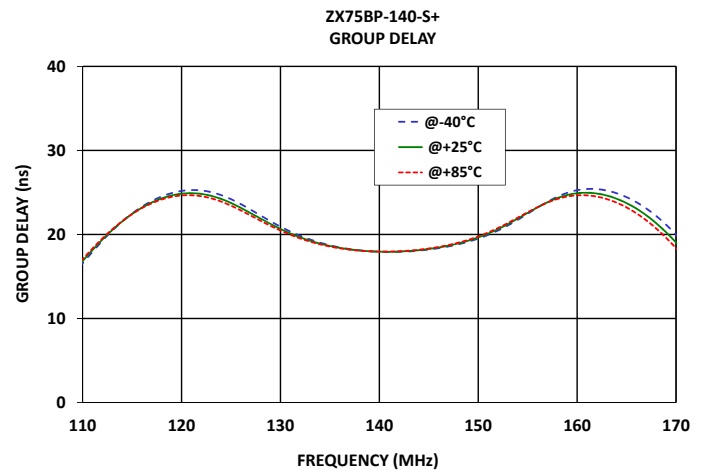
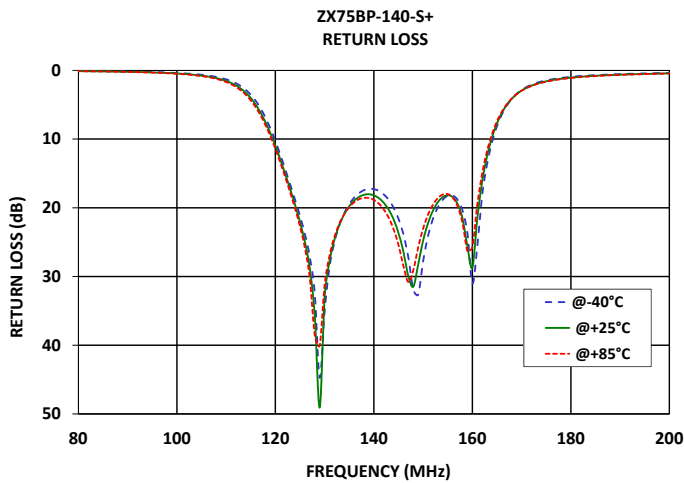
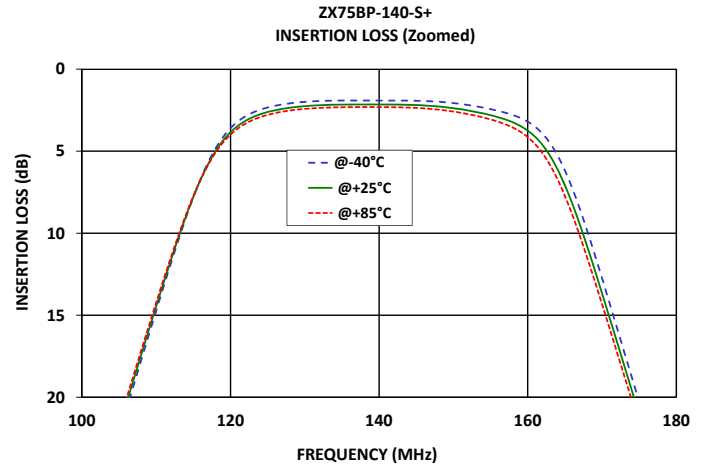
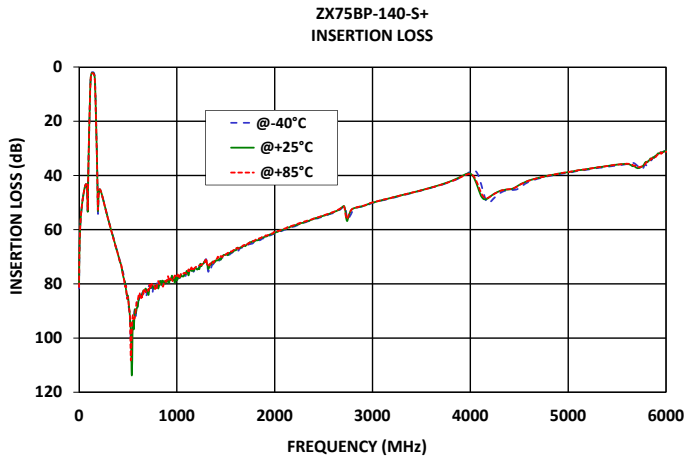
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TYPICAL PERFORMANCE GRAPHS



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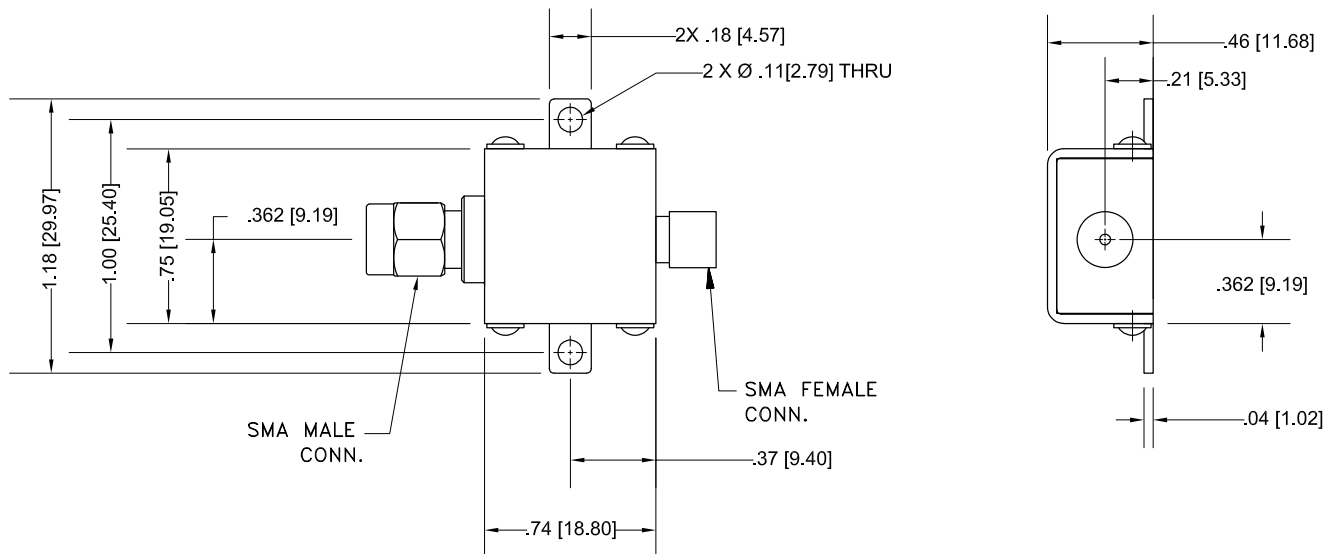
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CONNECTOR DESCRIPTION

Function	Marking on Unit	Connector
RF1 ¹	1	SMA Male
RF2 ¹	2	SMA Female

CASE STYLE DRAWING



Weight: 24.4 gram

Dimensions are in inches (mm). Tolerances: 2Pl. ± .03; 3Pl. ± .015

Tolerance on hole size and interaxes dimensions to be ± .005.

PRODUCT MARKING*: ZX75BP-140-S+

*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	KE1467
RoHS Status	Compliant
Environmental Ratings	ENV46

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



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