



Mini-Circuits

CAVITY COAXIAL

Bandpass Filter

ZVBP-1350-S+

50 Ω

1350 MHz

SMA Female

KEY FEATURES

- Low Insertion Loss, 1 dB Typ.
- Good Return Loss, 18 dB Typ.
- High Rejection, 90 dB Typ.
- Stopband up to 4000 MHz
- Power Handling 10 Watts

APPLICATIONS

- Aerospace
- Defense and Government
- Military Radio
- GPS

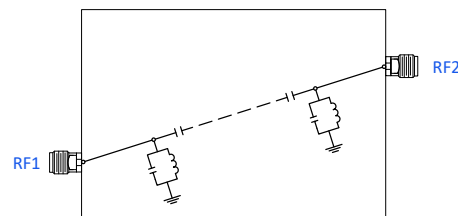
PRODUCT OVERVIEW

Mini-Circuits' ZVBP-1350-S+ is a coaxial cavity filter designed by implementing resonant structures with very high Q and are ideal for narrow-band, high-selectivity applications. Mini-Circuits' coaxial cavity filters feature a special protective assembly to prevent accidental de-tuning that would otherwise require expensive replacement or return to factory for re-tuning. Precise machining allows realization of cavity filters with small form factors for applications where size is critical.



Generic photo used for illustration purposes only

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS AT +25°C

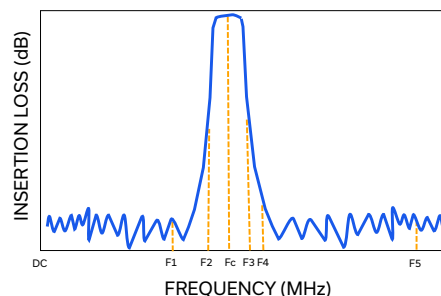
Parameter		F#	Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Center Frequency	F _c	—	—	1350	—	MHz
	1 dB Bandwidth	—	—	20	—	—	MHz
	Insertion Loss	F _c	1350	—	1	1.2	dB
	Return Loss	F _c	1350	14	18	—	dB
Stopband, Lower	Rejection	DC-F1	DC - 1000	80	90	—	dB
		F1-F2	1000 - 1310	50	53	—	
Stopband, Upper	Rejection	F3-F4	1390 - 1600	50	55	—	dB
		F4-F5	1600 - 4000	80	90	—	

ABSOLUTE MAXIMUM RATINGS^{1,2}

Parameter	Ratings
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +100°C
Input Power ³	10 W max. at +25°C

1. Permanent damage may occur if any of these limits are exceeded.
2. Input and output ports are DC short to ground.
3. Power rating applies only to signals within the passband.

TYPICAL FREQUENCY RESPONSE AT +25°C



Mini-Circuits



Mini-Circuits

CAVITY COAXIAL

Bandpass Filter

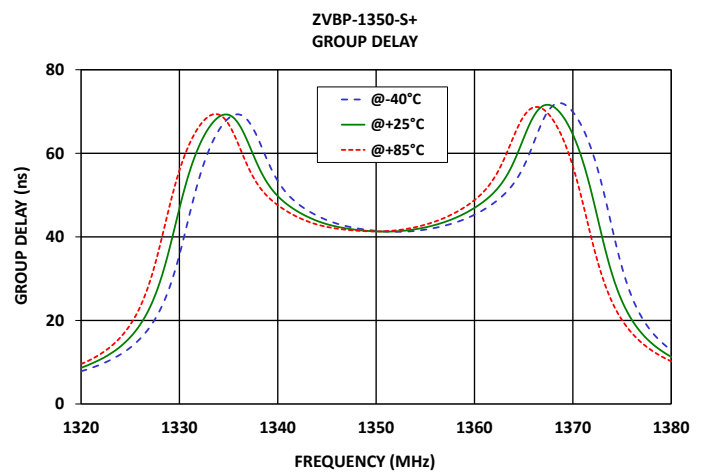
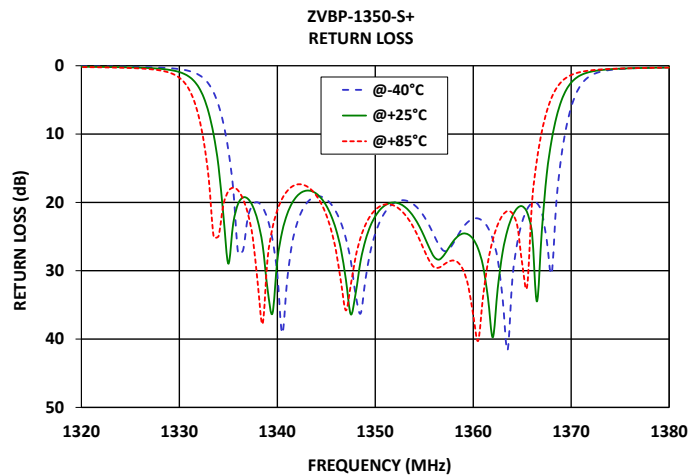
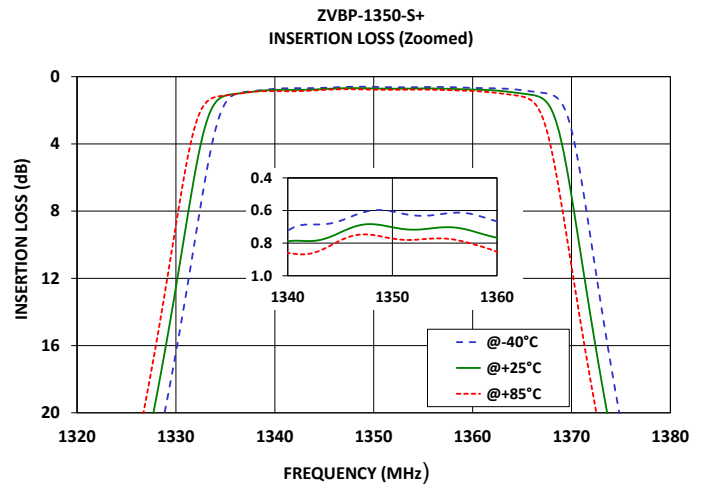
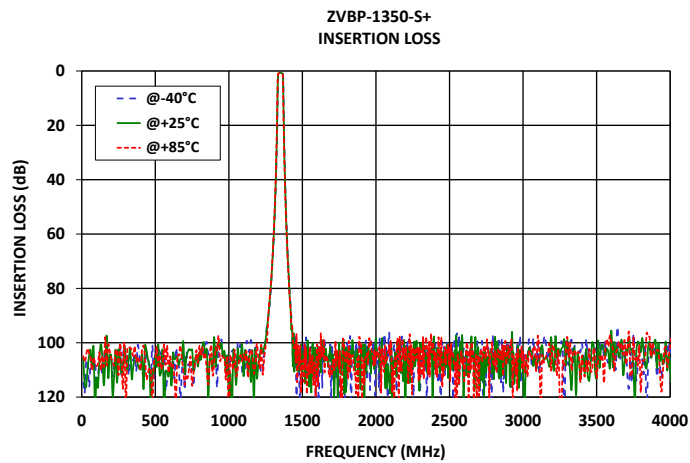
ZVBP-1350-S+

50Ω

1350 MHz

SMA Female

TYPICAL PERFORMANCE GRAPHS





CAVITY COAXIAL

Bandpass Filter

ZVBP-1350-S+

Mini-Circuits

50Ω

1350 MHz

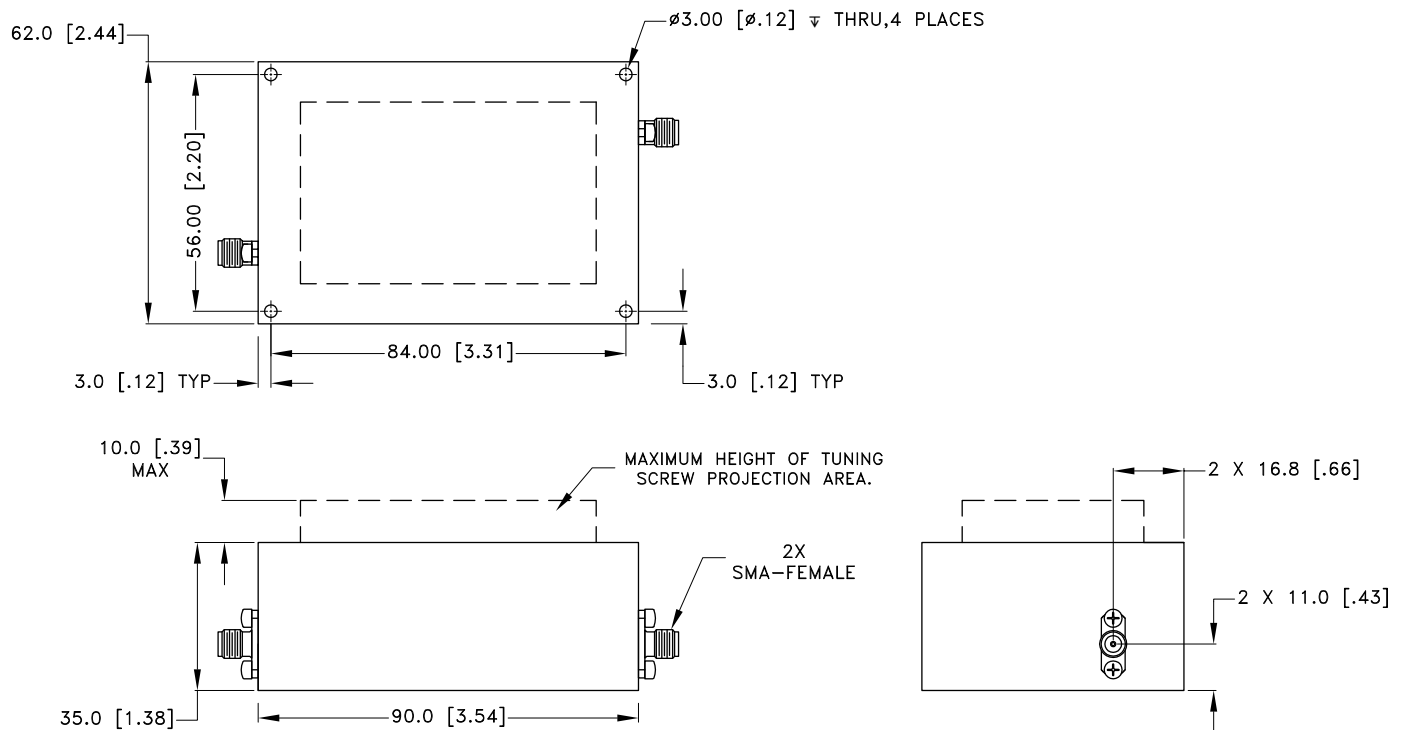
SMA Female

CONNECTOR DESCRIPTION

Function	Connector
RF1 ⁴	SMA Female
RF2 ⁴	SMA Female

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

CASE STYLE DRAWING



Unit Weight: 325 Grams.

Dimensions are in mm (inches). Tolerances: 1 Pl. ± 1.5 [0.06]; 2 Pl. ± 0.4 [0.016]

PRODUCT MARKING*: ZVBP-1350-S+

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





Mini-Circuits

CAVITY COAXIAL

Bandpass Filter

ZVBP-1350-S+

50Ω

1350 MHz

SMA 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	BCC3818
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

