Bandpass Filter

ZVBP-323-S+

50Ω 300 to 346 MHz SMA Female

KEY FEATURES

Mini-Circuits

- · Low Insertion Loss, 0.2dB Typ.
- · Good Return Loss, 22dB Typ.
- Great Rejection, 80dB Typ.
- Wide Stopband up to 1500MHz

Generic photo used for illustration purposes only

APPLICATIONS

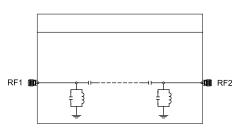
- Test & Measurement
- Lab Use

PRODUCT OVERVIEW

Mini-Circuits' ZVBP-323-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.

FUNCTIONAL DIAGRAM



ELECTRICAL SPECIFICATIONS1 AT +25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Units
Passband	Center Frequency	_	_	_	323	_	MHz
	Insertion Loss	F1-F2	300 - 346	_	0.2	0.6	dB
	Return Loss	F1-F2	300 - 346	16	22	_	dB
Stop Band, Lower	Rejection	DC-F3	DC - 253	45	52	_	dB
Stop Band, Upper	Rejection	F4-F5	393 - 500	58	64	_	dB
		F5-F6	500 - 1500	80	90	_	

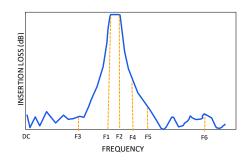
 $^{1. \} This filter is bi-directional \ RF1 \ and \ RF2 \ ports \ may \ be interchanged, see \ S-Parameters for actual \ performance.$

ABSOLUTE MAXIMUM RATINGS^{2,3}

Parameter	Ratings	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-55°C to +100°C	
Input Power ⁴	50W at +25°C	

- 2. Permanent damage may occur if any of these limits are exceeded.
- 3. Input and output ports are DC short to ground.
- ${\bf 4. \ \ Power \ rating \ applies \ only \ to \ signals \ within \ the \ passband.}$

TYPICAL FREQUENCY RESPONSE AT +25°C



REV. OR ECO-019871 ZVBP-323-S+ EDU4635 URJ 231219

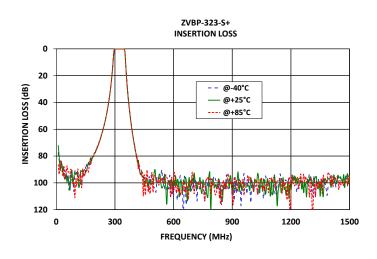


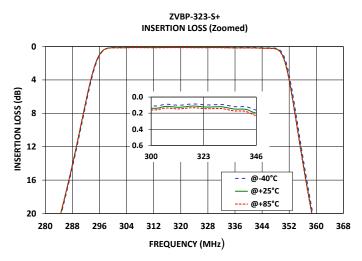
Bandpass Filter

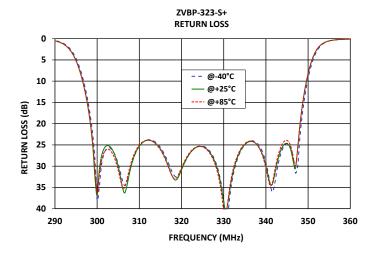
ZVBP-323-S+

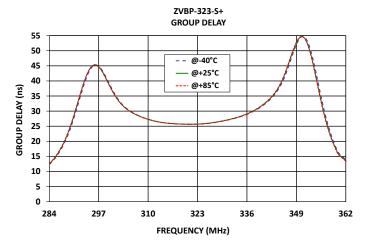
50Ω 300 to 346 MHz SMA Female

TYPICAL PERFORMANCE GRAPHS









ZVBP-323-S+

Bandpass Filter

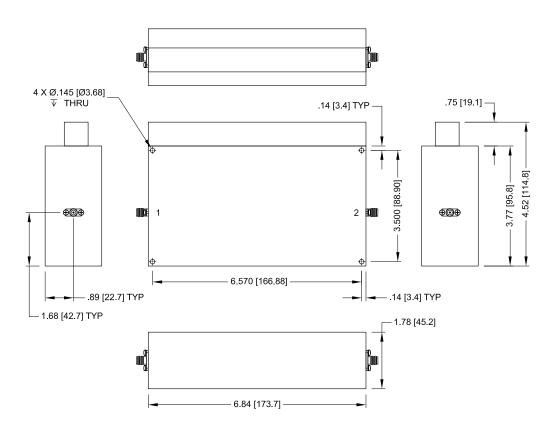
50Ω 300 to 346 MHz SMA Female

CONNECTOR DESCRIPTION

Mini-Circuits

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

CASE STYLE DRAWING



Unit Weight: 725 Grams. Dimensions are in inches (mm). Tolerances: 2 Pl. \pm .100; 3 Pl. \pm .015

PRODUCT MARKING*: ZVBP-323-S+

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



ZVBP-323-S+

300 to 346 MHz SMA Female

ADDITIONAL INFORMATION IS AVAILABLE ON OUR DASHBOARD

CLICK HERE

	Data
	Data
Performance Data & Graphs	Graphs
	S-Parameter (S2P Files) Data Set (.zip file)
Case Style	ZQ3557
RoHS Status	Compliant
Environmental Ratings	ENV77T1

- 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.
- 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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