50Ω DC to 320 MHz

The Big Deal

- Excellent power handling, 5W
- Temperature stable
- Rugged, unibody construction
- Good rejection, 33 dB typical



Generic photo used for illustration purposes only CASE STYLE: FF704

Product Overview

VLFG-320+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-320 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. VLFG-320+ offer low insertion loss, and excellent power handling capability. It handles up to 5W RF input power and provides a wide operating temperature range from -55°C to 100°C.

Key Features

Feature	Advantages		
Low passband insertion loss	Suitable for high performance application.		
5W Power handling	Supports a range of system power requirements.		
Connectorized package	The connectorized package is easy to interface with other devices and well suited for test setups.		

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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's 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"); Puchasers 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/MCLStore/terms.jsp

Low Pass Filter

 50Ω DC to 320 MHz

VLFG-320+



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+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

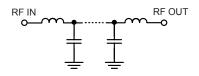
Features

- Low loss, 1 dB typical
- Good rejection 33 dB typical
- · Excellent power handling, 5 W
- Temperature stable
- Connectorized package

Applications

- · Harmonic Rejection
- VHF/UHF transmitters / receivers
- RF suppression for DC lines on PCB
- Anti-aliasing for A/D converter

Functional Schematic



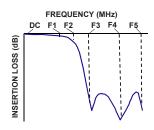
Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 320	_	1.0	1.7	dB
Pass Band	Freq. Cut-Off	F2	440	_	3.0	_	dB
	VSWR	DC-F1	DC - 320	_	1.2	_	:1
	Rejection Loss	F3-F4	660 - 2000	25	33	_	dB
Stop Band		F4-F5	2000 - 6000	_	25	_	dB
	VSWR	F3-F5	660 - 6000	_	20	_	:1

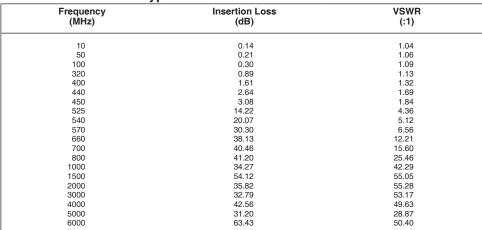
Maximum Ratings				
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	5 W max.@25°C			

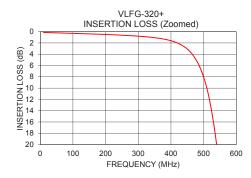
^{*}Passband rating, derate linearly to 2.5 W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

Typical Frequency Response

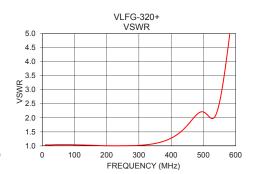


Typical Performance Data at 25°C









Notes
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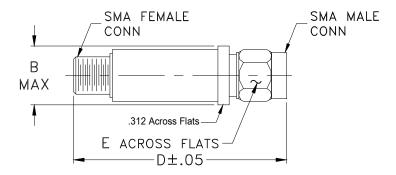
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Coaxial Connections

PORT - 1	SMA-Male
PORT - 2	SMA-Female

Outline Drawing



Outline Dimensions (inch)

В	D	Ε	wt.
.410	1.43	.312	grams
10.41	36.32	7.92	10

Note: Please refer to case style drawing for details

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