VLFG-900+

 50Ω DC to 850 MHz

The Big Deal

- Excellent power handling, 6 W
- Temperature stable
- Rugged unibody construction
- Good rejection, 45 dB typical



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Product Overview

VLFG-900+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-850 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-900+ offer low insertion loss, and excellent power handling capability. It handles up to 6W RF input power and provides a wide operating temperature range from -55°C to 100°C.

Kev Features

Feature	Advantages
Low passband insertion loss	Suitable for high performance application.
6 W 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.

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-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 850 MHz

VLFG-900+



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+RoHS Compliant

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

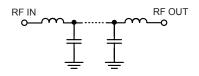
Features

- Low loss, 1.3 dB typical
- Good rejection 45 dB typical
- · Excellent power handling, 6 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- · Military radar applications
- Test and measurement
- Telecommunications & broadband wireless applications
- Medical telemetry

Functional Schematic



Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 850	_	1.3	2.2	dB
Pass Band	Freq. Cut-Off	F2	1000	_	3.0	_	dB
	VSWR	DC-F1	DC - 850	_	1.3	_	:1
Stop Band	Rejection Loss F	F3-F4	1300 - 1600	20	49	_	dB
		F4-F5	1600 - 4500	33	45	_	dB
		F5-F6	4500 - 11000	_	21	_	dB
	VSWR	F3-F6	1300-11000	_	20	_	:1

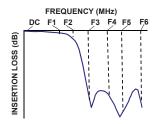
Maximum Ratings		
Operating Temperature	-55°C to 100°C	
Storage Temperature	-55°C to 100°C	
RF Power Input*	6 W max.@25°C	

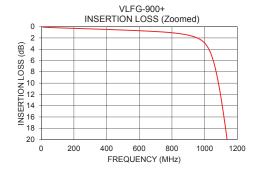
^{*}Passband rating, derate linearly to 3 W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

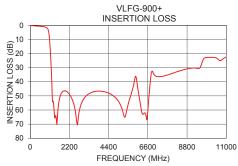
Typical Performance Data at 25°C

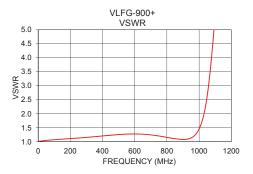
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10	0.10	1.02
100	0.20	1.09
400	0.49	1.29
500	0.60	1.33
600	0.72	1.31
850	1.25	1.06
900	1.51	1.02
1000	2.90	1.43
1010	3.24	1.54
1140	20.57	4.58
1180	30.56	5.39
1300	54.55	8.86
1600	55.04	21.65
4000	46.71	67.68
4500	48.64	71.25
6000	41.44	41.40
7000	35.63	41.26
8500	31.88	33.07
10000	22.72	26.92
11000	22.42	25.23

Typical Frequency Response









Notes
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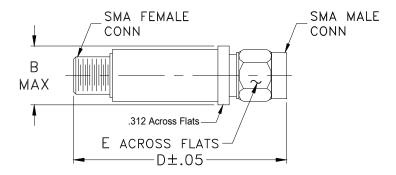
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Coaxial Connections

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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