VLFG-1000+

 50Ω DC to 1000 MHz

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The Big Deal

- Excellent power handling, 5.5 W
- Temperature stable
- Rugged unibody construction
- Good rejection, 45 dB typical

Product Overview

VLFG-1000+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-1000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-1000+ offer low insertion loss, and excellent power handling capability. It handles up to 5.5W RF input power and provides a wide operating temperature range from -55°C to 125°C.

Key Features

Feature	Advantages	
Low passband insertion loss	Suitable for high performance application.	
5.5 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.	

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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.

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Low Pass Filter

 50Ω DC to 1000 MHz

VLFG-1000+



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+RoHS Compliant

Тур.

0.9

3.0

21

29

45

40

34

20

35

30

Max.

1.8

Unit

dB

dΒ

dΒ

dB

dB

dΒ

dΒ

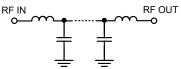
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

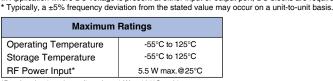
Features

- · Low loss, 0.9 dB typical
- · Good rejection 45 dB typical
- Excellent power handling, 5.5 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- Lab use





Parameter

Pass Band

Stop Band

Insertion Loss

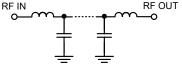
Freq. Cut-Off

Return Loss

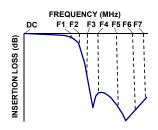
Rejection Loss

*Passband rating, derate linearly to 1 W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

Functional Schematic



Typical Frequency Response



Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC - 1000

1370

DC - 1000

1550 - 1900

1900 - 3000

3000 - 6000

6000 - 10000

F#

DC-F1

F2*

DC-F1

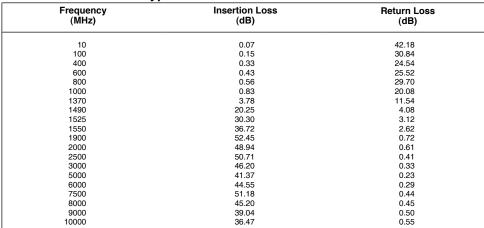
F3-F4

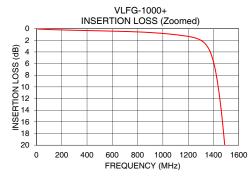
F4-F5

F5-F6

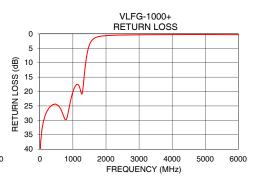
F6-F7

In Application where DC voltage is present at either input or output port, DC blocks are required.









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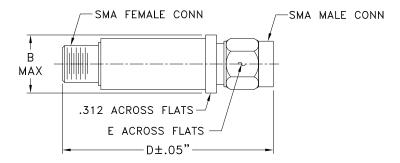
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

wt	Е	D	В
grams	.312	1.43	.410
10	7 02	36 33	10.41

Note: Please refer to case style drawing for details

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