# **VLFG-1325+**

 $50\Omega$ DC to 1325 MHz

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# The Big Deal

- Excellent power handling, 5.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 48 dB typical

### **Product Overview**

VLFG-1325+ is a  $50\Omega$  low pass filter built in rugged unibody construction. Covering DC-1325 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-1325+ 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.	
5.5W 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**

 $50\Omega$ DC to 1325 MHz

## VLFG-1325+



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### +RoHS Compliant

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

Тур.

1.1

3.0

21

40

48

28

20

37

Max.

1.8

Unit

dB

dB

dB

dB

dΒ

dB

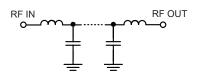
### **Features**

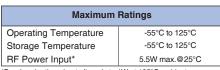
- · Low loss, 1.1dB typ.
- High rejection 48dB typ.
- · Excellent power handling, 5.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

### **Applications**

- · Military radio applications
- Test and measurement
- · Telecommunications and broadband wireless applications

### **Functional Schematic**





**Parameter** 

Pass Band

Stop Band

Insertion Loss

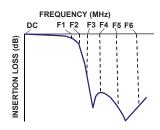
Freq. Cut-Off

Return Loss

Rejection Loss

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

### **Typical Frequency Response**



### Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC - 1325

1550

DC - 1325

1900 - 2150

2150 - 6500

6500 - 11600

F#

DC-F1

F2\*

DC-F1

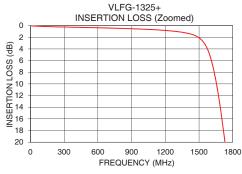
F3-F4

F4-F5

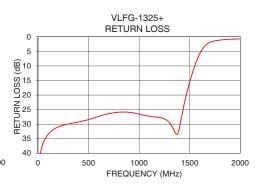
F5-F6

In Application where DC voltage is present at either input or output port, DC blocks are required.  $^\star$  Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Frequency	Insertion Loss	Return Loss
(MHz)	(dB)	(dB)
10	0.06	42.51
100	0.13	33.57
300	0.24	29.96
500	0.32	28.42
700	0.42	26.42
900	0.54	25.94
1000	0.61	26.52
1325	1.07	30.75
1550	3.12	10.00
1655	9.99	2.97
1730	19.96	1.54
1790	30.84	1.15
1900	44.15	0.84
2150	61.68	0.56
3000	50.97	0.38
5000	62.66	0.41
6500	48.47	0.42
8000	39.89	0.42
10000	31.38	0.54
11600	27.52	0.98







Notes
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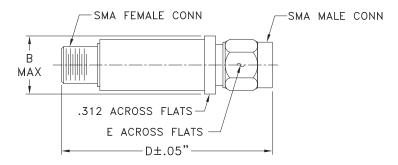
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### **Coaxial Connections**

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

### **Outline Drawing**



### Outline Dimensions (inch )

В	D	Е	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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