# **VLFG-2250+**

DC to 2250 MHz  $50\Omega$ 

# **The Big Deal**

- Excellent power handling, 5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 40 dB typical



Generic photo used for illustration purposes only CASE STYLE: FF704

### **Product Overview**

VLFG-2250+ is a  $50\Omega$  low pass filter built in rugged unibody construction. Covering DC-2250 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2250+ 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.	

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**

DC to 2250 MHz  $50\Omega$ 

## **VLFG-2250+**



Generic photo used for illustration purposes only CASE STYLE: FF704

Max.

2.0

Unit

dB

dB

dB

dB

dΒ

dB

### +RoHS Compliant

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

Тур.

1.2

3.0

21

30

40

26

20

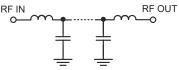
32

### **Features**

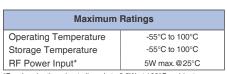
- Low loss, 1.2 dB typical
- Good rejection 40 dB typical
- · Excellent power handling, 5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

### **Applications**

- · Military radar applications
- Test and measurement
- · Telecommunication and broadband wireless applications



### **Functional Schematic**



Parameter

Pass Band

Stop Band

Insertion Loss

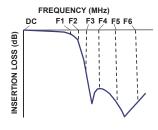
Freq. Cut-Off

Return Loss

Rejection Loss

\*Passband rating, derate linearly to 2.5W at 100°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 - 2250

2500

DC - 2250

2950 - 3600

3600 - 8000

8000 - 15000

F#

DC-F1

F2

DC-F1

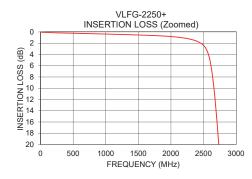
F3-F4

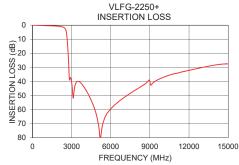
F4-F5

F5-F6

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

Insertion Loss (dB)	Return Loss (dB)
0.05	45.25
0.10	40.02
0.38	24.72
0.51	21.26
0.67	23.09
0.82	27.01
1.17	32.00
2.39	20.74
3.52	13.40
24.75	2.01
33.02	1.70
38.01	1.14
40.49	1.04
40.31	0.61
67.78	0.48
45.53	0.41
37.18	0.40
34.51	0.61
32.15	0.70
27.57	0.73
	(dB)  0.05 0.10 0.38 0.51 0.67 0.82 1.17 2.39 3.52 24.75 33.02 38.01 40.49 40.31 67.78 45.53 37.18 34.51 32.15







Notes
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.

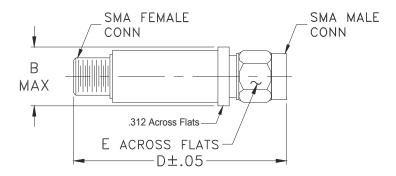
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited 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

### **Coaxial Connections**

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

### **Outline Drawing**



### Outline Dimensions (inch )

В	D	E	wt.
.410	1.43	.312	grams
10 41	36.32	7 92	10

Note: Please refer to case style drawing for details

Notes
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 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