VLFG-2500+

 50Ω DC to 2500 MHz

Generic photo used for illustration purposes only CASE STYLE: FF704

The Big Deal

- Excellent power handling, 6W
- Temperature stable
- Rugged unibody construction
- Good rejection, 42 dB typical

Product Overview

VLFG-2500+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-2500 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2500+ 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.

Key Features

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

DC to 2500 MHz 50Ω

VLFG-2500+



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+RoHS Compliant

Тур.

1.2

3.0

16

33

42

30

20

33

Max.

2.2

Unit

dB

dB

dB

dB

dΒ

dB

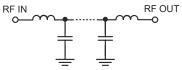
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Features

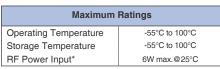
- Low loss, 1.2 dB typical
- · Good rejection 42 dB typical
- · Excellent power handling, 6W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

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



Functional Schematic



Parameter

Pass Band

Stop Band

Insertion Loss

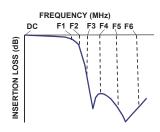
Freq. Cut-Off

Return Loss

Rejection Loss

*Passband rating, derate linearly to 3W 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 - 2500

2870

DC - 2500

3500 - 4000

4000 - 7000

7000 - 10000

F#

DC-F1

F2

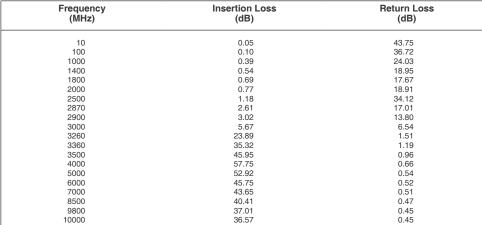
DC-F1

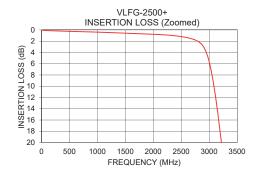
F3-F4

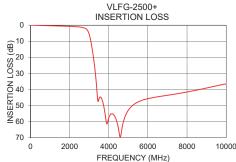
F4-F5

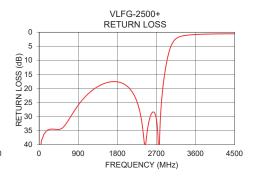
F5-F6

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







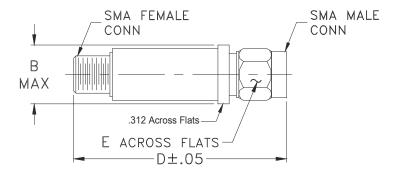


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Coaxial Connections

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

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