VLFG-3500+

 50Ω DC to 3500 MHz

The Big Deal

- Excellent power handling, 6W
- Temperature stable
- Rugged unibody construction
- Good rejection, 40 dB typical



Generic photo used for illustration purposes only CASE STYLE: FF704

Product Overview

VLFG-3500+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-3500 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-3500+ 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.

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Low Pass Filter

DC to 3500 MHz 50Ω

VLFG-3500+



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+RoHS Compliant

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

Тур.

1.3

3.0

14

35

38

25

20

30

Max.

2.2

Unit

dB

dB

dΒ

dB

dB

dB

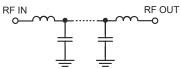
Features

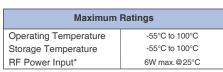
- Low loss, 1.3 dB typical
- · Good rejection 40 dB typical
- · Excellent power handling, 6W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

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

Functional Schematic





Parameter

Pass Band

Stop Band

Insertion Loss

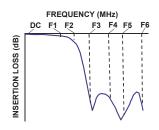
Freq. Cut-Off

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

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.

Frequency (MHz)

DC - 3500

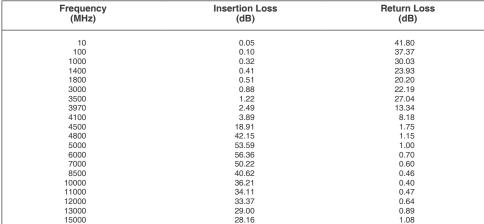
3970

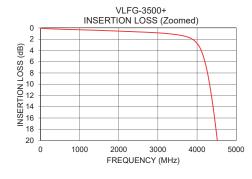
DC - 3500

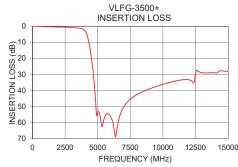
4800 - 5000

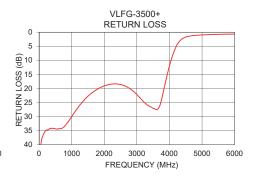
5000 - 8500

8500 - 15000









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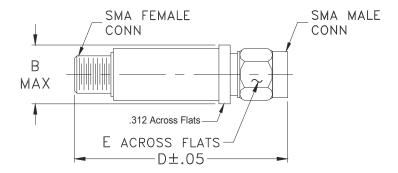
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

В	D	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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