VLFG-3500+

 50Ω DC to 3500 MHz

Generic photo used for illustration purposes only CASE STYLE: FF704

The Big Deal

- Excellent power handling, 4.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 40 dB typical

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 4.5W 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.
4.5W 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.

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Low Pass Filter

DC to 3500 MHz 50Ω

VLFG-3500+



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+RoHS Compliant

Тур.

1.3

3.0

14

35

38

25

20

30

Max.

2.2

Unit

dB

dΒ

dΒ

dB

dΒ

dB

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

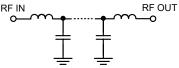
Features

- Low loss, 1.3 dB typical
- · Good rejection 40 dB typical
- · Excellent power handling, 4.5W
- 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

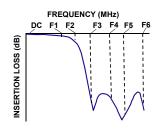
Freq. Cut-Off

Return Loss

Rejection Loss

*Passband rating, derate linearly to 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

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.

* Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Frequency (MHz)

DC - 3500

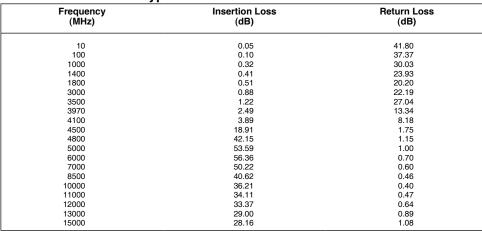
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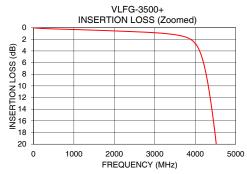
DC - 3500

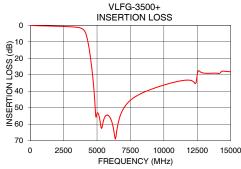
4800 - 5000

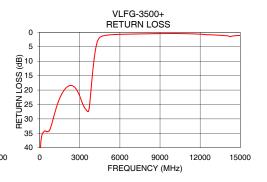
5000 - 8500

8500 - 15000









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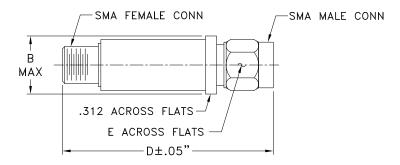
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

Е	D	В	
12	1.43	.410	
92	36.32	10.41	10

Note: Please refer to case style drawing for details

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