VLFG-3800+

 50Ω DC to 3900 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, 42 dB typical

Product Overview

VLFG-3800+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-3900 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-3800+ 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 3900 MHz 50Ω

VLFG-3800+



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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

40

42

33 20

20

33

25

Max.

1.8

Unit

dB

dΒ

dΒ

dB

dΒ

dΒ

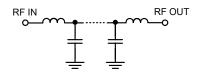
dΒ

Features

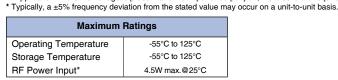
- · Low loss, 1.3 dB typical
- · Good rejection 42 dB typical
- · Excellent power handling, 4.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

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



Functional Schematic



Parameter

Pass Band

Stop Band

Insertion Loss

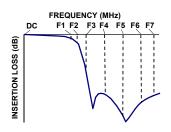
Freq. Cut-Off

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

Frequency (MHz)

DC - 3900

5000

DC - 3900

5800 - 6200

6200 - 8400

8400 - 12000

12000 - 18000

F#

DC-F1

F2*

DC-F1

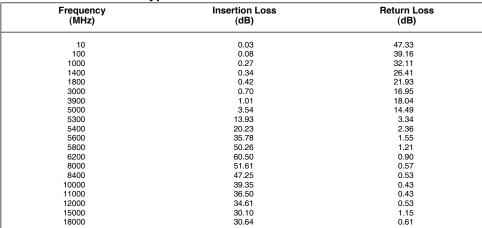
F3-F4

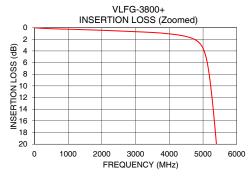
F4-F5

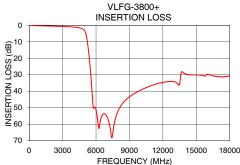
F5-F6

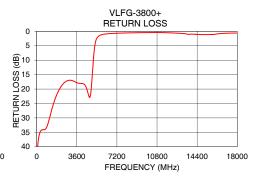
F6-F7

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









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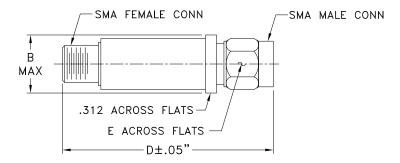
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

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

Note: Please refer to case style drawing for details

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