VLFG-2600+

 50Ω DC to 2600 MHz

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The Big Deal

- Excellent power handling, 4.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 50 dB typical

Product Overview

VLFG-2600+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-2600 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2600+ 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.

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 2600 MHz 50Ω

VLFG-2600+



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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

16

50

43

30 25

20

34

Max.

2.2

Unit

dB

dΒ

dΒ

dB

dΒ

dΒ

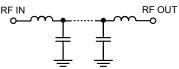
dΒ

Features

- Low loss, 1.3 dB typical
- · Good rejection 50 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



*Passband rating, derate linearly to 1W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

Parameter

Pass Band

Stop Band

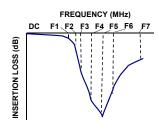
Insertion Loss

Freq. Cut-Off

Return Loss

Rejection Loss

Typical Frequency Response



Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC - 2600

3000

DC - 2600

3850 - 4200

4200 - 7000

7000 - 10000

10000 - 15000

F#

DC-F1

F2*

DC-F1

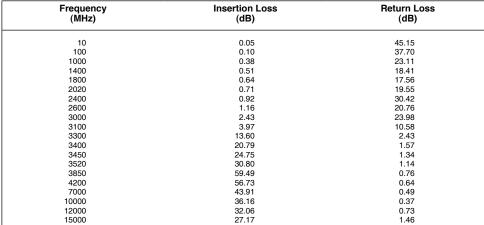
F3-F4

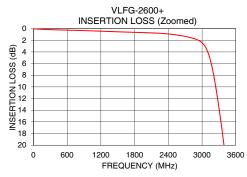
F4-F5

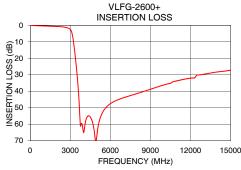
F5-F6

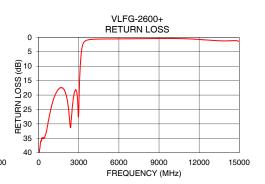
F6-F7 In Application where DC voltage is present at either input or output port, DC blocks are required.

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









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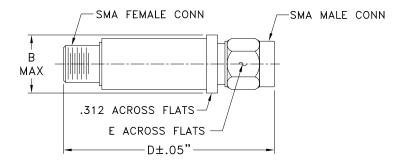
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

	Ε	D	В
gran	.312	1.43	.410
	7.92	36.32	10.41

Note: Please refer to case style drawing for details

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