VLFG-1200+

 50Ω DC to 1200 MHz



Generic photo used for illustration purposes only CASE STYLE: FF704

The Big Deal

- Excellent power handling, 5.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 50 dB typical

Product Overview

VLFG-1200+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-1200 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-1200+ offer low insertion loss, and excellent power handling capability. It handles up to 5.5W 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.	
5.5W 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 1200 MHz 50Ω

VLFG-1200+



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+RoHS Compliant

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

Тур.

1.0

3.0

24

50

50

40

30

20

40

28

Max.

1.8

Unit

dB

dΒ

dΒ

dΒ

dB

dΒ

dΒ

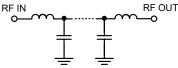
Features

- Low loss, 1.0 dB typical
- · Good rejection 50 dB typical
- · Excellent power handling, 5.5W
- 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

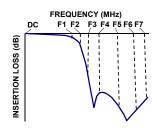
Freq. Cut-Off

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 - 1200

1470

DC - 1200

1865 - 2000

2000 - 3700

3700 - 7000

7000 - 10000

F#

DC-F1

F2*

DC-F1

F3-F4

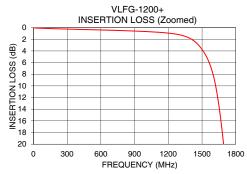
F4-F5

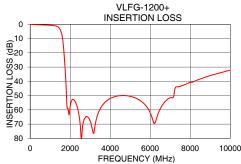
F5-F6

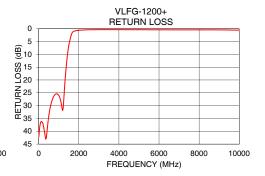
F6-F7 In Application where DC voltage is present at either input or output port, DC blocks are required.

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

Frequency	Frequency Insertion Loss Return Loss		
(MHz)	(dB)	(dB)	
10	0.07	42.12	
100	0.14	36.51	
400	0.30	41.00	
600	0.40	29.78	
1000	0.67	26.07	
1200	0.94	31.75	
1300	1.23	21.58	
1470	3.02	8.01	
1650	13.39	1.87	
1700	21.50	1.28	
1750	31.72	1.03	
1865	58.83	0.78	
1900	59.68	0.73	
2000	57.95	0.64	
3700	55.26	0.39	
5000	50.52	0.41	
7000	51.55	0.45	
8000	40.70	0.46	
9000	35.93	0.46	
10000	32.14	0.58	







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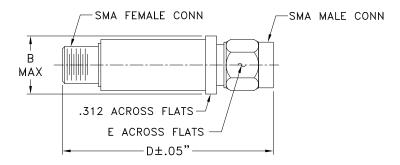
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Coaxial Connections

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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