VLFG-1575+

 50Ω DC to 1575 MHz

The Big Deal

- Excellent power handling, 5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 45 dB typical



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Product Overview

VLFG-1575+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-1575 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-1575+ offer low insertion loss, and excellent power handling capability. It handles up to 5W 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.	
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

 50Ω DC to 1575 MHz

VLFG-1575+



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Max.

1.8

Unit

dB

dB

dB

dB

dΒ

dB

+RoHS Compliant

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

Тур.

1.1

3.0

15

38

45

35

20

36

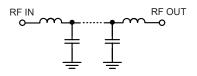
Features

- Low loss, 1.1 dB typical
- Good rejection 45 dB typical
- · Excellent power handling, 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

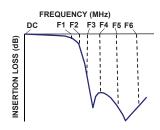
Freq. Cut-Off

Return Loss

Rejection Loss

*Passband rating, derate linearly to 2.5W 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

Frequency (MHz)

DC - 1575

1850

DC - 1575

2175 - 2400

2400 - 7000

7000 - 12000

F#

DC-F1

F2

DC-F1

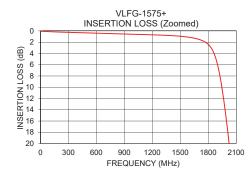
F3-F4

F4-F5

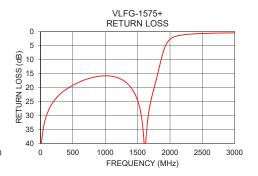
F5-F6

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

Typical Follormanoo Bata at 20 0				
Insertion Loss (dB)	Return Loss (dB)			
0.06	41.92			
0.13	29.52			
0.59	15.80			
0.64	15.95			
0.82	20.07			
0.94	24.62			
1.08	33.09			
3.53	11.28			
11.49	3.78			
21.64	2.19			
33.33	1.61			
47.80	1.25			
61.50	0.76			
61.27	0.45			
47.10	0.44			
39.12	0.43			
41.67	0.41			
38.68	0.47			
33.55	0.65			
33.35	0.97			
	0.06 0.13 0.59 0.64 0.82 0.94 1.08 3.53 11.49 21.64 33.33 47.80 61.50 61.27 47.10 39.12 41.67 38.68 33.55			







Notes
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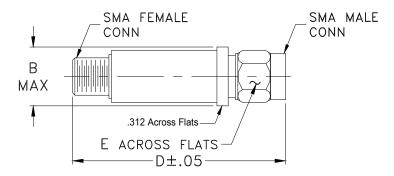
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

В	D	Е	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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