VLFG-3400+

 50Ω DC to 3400 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-3400+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-3400 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-3400+ 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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Low Pass Filter

DC to 3400 MHz 50Ω

VLFG-3400+



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Max.

2.1

Unit

dΒ

dB

dB

dB

dΒ

dΒ

+RoHS Compliant

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

Тур.

1.4

3.0

16

35

40

25

20

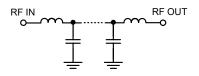
30

Features

- · Low loss, 1.4dB typ.
- High rejection 40dB typ.
- · Excellent power handling, 4.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

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



Functional Schematic



Parameter

Pass Band

Stop Band

Insertion Loss

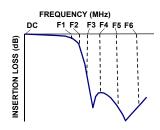
Freq. Cut-Off

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 - 3400

3800

DC - 3400

4700 - 5000

5000 - 8500

8500 - 15000

F#

DC-F1

F2*

DC-F1

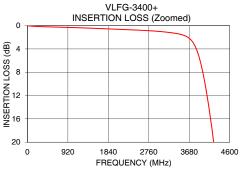
F3-F4

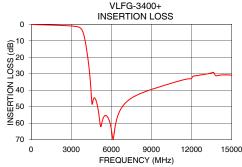
F4-F5

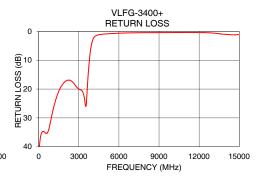
F5-F6

In Application where DC voltage is present at either input or output port, DC blocks are required. * Typically, a $\pm5\%$ frequency deviation from the stated value may occur on a unit-to-unit basis.

- Typical Tollows Data at 20 C				
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)		
10	0.04	44.51		
100	0.09	37.65		
300	0.17	34.68		
500	0.22	35.23		
1000	0.33	28.69		
1500	0.46	20.76		
2000	0.62	17.31		
3400	1.37	22.76		
3800	3.36	9.51		
4040	10.10	2.96		
4240	20.42	1.62		
4380	30.36	1.32		
4700	44.69	1.04		
5000	51.22	0.91		
7000	48.11	0.53		
8500	40.93	0.45		
9000	39.47	0.44		
10000	36.90	0.42		
	Frequency (MHz) 10 100 300 500 1000 1500 2000 3400 3800 4040 4240 4380 4700 5000 7000 8500 9000	Frequency (MHz) (dB) 10 0.04 100 0.09 300 0.17 500 0.22 1000 0.33 1500 0.46 2000 0.62 3400 1.37 3800 3.36 4040 10.10 4240 20.42 4380 30.36 4700 44.69 5000 51.22 7000 48.11 8500 9000 39.47 10000 36.90 12000 32.78	Frequency (MHz) Insertion Loss (dB) Return Loss (dB) 10 0.04 44.51 100 0.09 37.65 300 0.17 34.68 500 0.22 35.23 1000 0.33 28.69 1500 0.46 20.76 2000 0.62 17.31 3400 1.37 22.76 3800 3.36 9.51 4040 10.10 2.96 4240 20.42 1.62 4380 30.36 1.32 4700 44.69 1.04 5000 51.22 0.91 7000 48.11 0.53 8500 40.93 0.45 9000 39.47 0.44 10000 36.90 0.42 12000 32.78 0.45	







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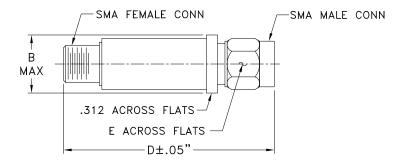
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Coaxial Connections

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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