# **VLFG-400+**

 $50\Omega$ DC to 400 MHz

# **The Big Deal**

- Excellent power handling, 5W
- Temperature stable
- Rugged, unibody construction
- Good rejection, 31 dB typical



Generic photo used for illustration purposes only CASE STYLE: FF704

### **Product Overview**

VLFG-400+ is a  $50\Omega$  low pass filter built in rugged unibody construction. Covering DC-400 MHz bandwidth, these units offer good matching within the passband and high rejection in stopband. VLFG-400+ 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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# **Low Pass Filter**

 $50\Omega$ DC to 400 MHz

# **VLFG-400+**



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Unit

dB

dB

:1

dB

dB

:1

#### +RoHS Compliant

Тур.

1.0

3.0

1.3

31

23

20

25

Max.

1.8

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

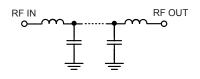
#### **Features**

- · Low loss, 1 dB typical
- Good rejection 31 dB typical
- · Excellent power handling, 5 W
- Temperature stable
- Connectorized package

### **Applications**

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- RF suppression for DC lines on PCB
- Anti-aliasing for A/D converter

### **Functional Schematic**



#### **Maximum Ratings** Operating Temperature -55°C to 100°C -55°C to 100°C Storage Temperature RF Power Input\* 5 W max.@25°C

**Parameter** 

Pass Band

Stop Band

Insertion Loss

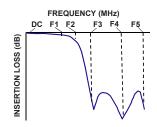
Freq. Cut-Off

Rejection Loss

VSWR

**VSWR** 

## **Typical Frequency Response**



## Typical Performance Data at 25°C

Electrical Specifications at 25°C

DC-F1

F2

DC-F1

F3-F4

F4-F5

F3-F5

Frequency (MHz)

DC - 400

520

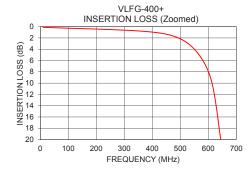
DC - 400

800 - 2500

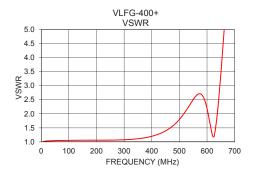
2500 - 4500

800 - 4500

7,0000000000000000000000000000000000000				
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
10	0.12	1.03		
50	0.20	1.05		
100	0.27	1.07		
200	0.42	1.09		
400	0.96	1.20		
500	2.14	1.85		
520	2.71	2.16		
530	3.07	2.34		
645	20.16	7.05		
705	30.86	9.77		
800	34.73	13.27		
900	37.41	17.92		
1000	52.52	23.50		
1500	39.81	45.39		
2000	41.77	51.10		
2500	34.41	52.52		
3000	32.54	53.19		
3500	32.10	52.75		
4000	28.67	46.64		
4500	49.60	48.59		







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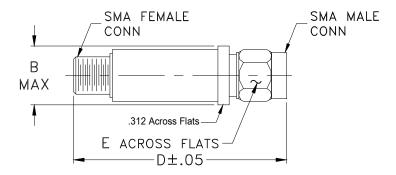
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<sup>\*</sup>Passband rating, derate linearly to 2.5 W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

#### **Coaxial Connections**

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

#### **Outline Drawing**



#### Outline Dimensions (inch )

В	D	Ε	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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