# **VLFG-2850+**

 $50\Omega$ DC to 2850 MHz

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# **The Big Deal**

- Excellent power handling, 6.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 40 dB typical

### **Product Overview**

VLFG-2850+ is a  $50\Omega$  low pass filter built in rugged unibody construction. Covering DC-2850 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2850+ offer low insertion loss, and excellent power handling capability. It handles up to 6.5W 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.   |  |  |
| 6.5W 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. |  |  |

A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.

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**

DC to 2850 MHz  $50\Omega$ 

## VLFG-2850+



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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

18

30

40

30

28

20

30

Max.

1.8

Unit

dB

dB

dB

dB

dΒ

dΒ

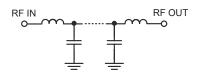
dΒ

#### **Features**

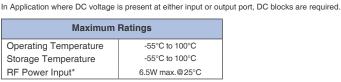
- Low loss, 1.3 dB typical
- · Good rejection 40 dB typical
- · Excellent power handling, 6.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

### **Applications**

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



#### **Functional Schematic**



**Parameter** 

Pass Band

Stop Band

Insertion Loss

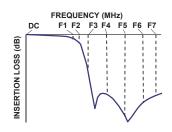
Freq. Cut-Off

Return Loss

Rejection Loss

\*Passband rating, derate linearly to 3.25W 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 - 2850

3240

DC - 2850

3800 - 4400

4400 - 8000

8000 - 12000

12000 - 14000

F#

DC-F1

F2

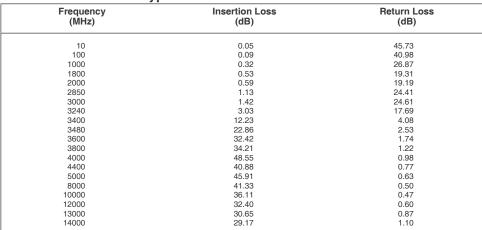
DC-F1

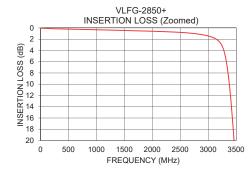
F3-F4

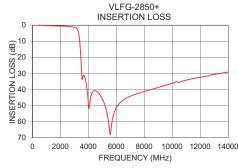
F4-F5

F5-F6

F6-F7









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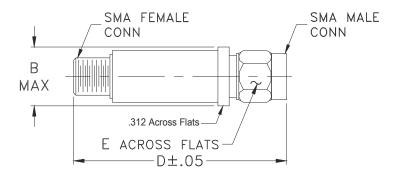
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#### **Coaxial Connections**

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

### **Outline Drawing**



### Outline Dimensions (inch )

| В     | D     | E    | wt.   |
|-------|-------|------|-------|
| .410  | 1.43  | .312 | grams |
| 10 41 | 36.32 | 7 92 | 10    |

Note: Please refer to case style drawing for details

Notes
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