# **VLFG-630+**

 $50\Omega$ DC to 630 MHz

# **The Big Deal**

- Good power handling, 3 W
- Temperature stable
- Rugged unibody construction
- Good rejection, 46 dB typical



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## **Product Overview**

VLFG-630+ is a  $50\Omega$  low pass filter built in rugged unibody construction. Covering DC-630 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-630+ offer low insertion loss, and good power handling capability. It handles up to 3W RF input power and provides a wide operating temperature range from -55°C to 100°C.

## **Kev Features**

Feature	Advantages
Low passband insertion loss	Suitable for high performance application.
3 W 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 630 MHz  $50\Omega$ 

# **VLFG-630+**



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#### +RoHS Compliant

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

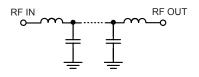
#### **Features**

- Low loss, 1.5 dB typical
- · Good rejection 46 dB typical
- · Good power handling, 3 W
- Temperature stable
- Connectorized package
- Rugged unibody construction

#### **Applications**

- Harmonic Rejection
- VHF/UHF transmitters / receivers
- · Military radar applications
- Test and measurement
- Telecommunications & broadband wireless applications
- Satcom modems

#### **Functional Schematic**



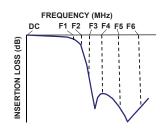
### Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 630	_	1.5	2.1	dB
Pass Band	Freq. Cut-Off	F2	780	_	3.0	_	dB
	VSWR	DC-F1	DC - 630	_	1.5	_	:1
Stop Band		F3-F4	1050 - 1500	20	50	_	dB
	Rejection Loss	F4-F5	1500 - 3800	35	46	_	dB
		F5-F6	3800 - 8500	_	21	_	dB
	VSWR	F3-F6	1050 - 8500	_	20	_	:1

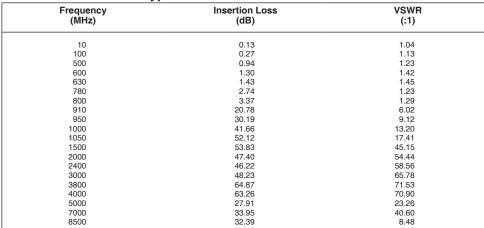
Maximum Ratings				
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	3 W max.@25°C			

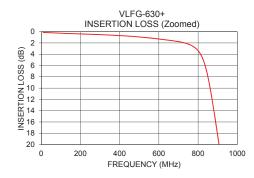
<sup>\*</sup>Passband rating, derate linearly to 1.2 W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.

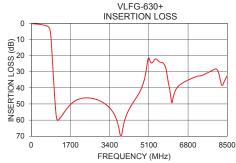
**Typical Frequency Response** 

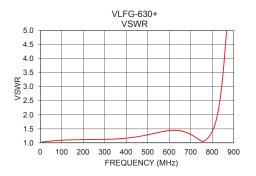


### Typical Performance Data at 25°C









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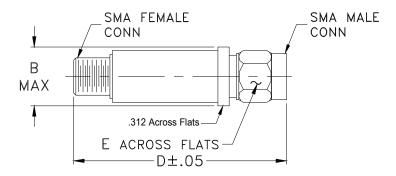
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**VLFG-630+ Low Pass Filter** 

#### **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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