VLFG-2000+

 50Ω DC to 2000 MHz

Generic photo used for illustration purposes only CASE STYLE: FF704

The Big Deal

- Excellent power handling, 5.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 42 dB typical

Product Overview

VLFG-2000+ is a 50Ω low pass filter built in rugged unibody construction. Covering DC-2000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VLFG-2000+ offer low insertion loss, and excellent power handling capability. It handles up to 5.5W 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.		
5.5W 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

 50Ω DC to 2000 MHz

VLFG-2000+



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+RoHS Compliant

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

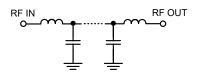
Features

- Low loss, 1.1dB typ.
- · Very good rejection 42dB typ.
- Excellent power handling, 5.5W
- Temperature stable
- Connectorized package
- Rugged unibody construction

Applications

- Military radio applications
- Test and measurement
- · Telecommunications and broadband wireless applications
- · Military Radar applications.

Functional Schematic



Electrical Specifications at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC - 2000	_	1.1	1.7	dB
Pass Band	Freq. Cut-Off	F2*	2350	_	3.0	_	dB
	Return Loss	DC-F1	DC - 2000	_	16	_	dB
		F3-F4	2850 - 3300	20	40	_	dB
Stop Band	Rejection Loss	F4-F5	3300 - 7500	32	42	_	dB
		F5-F6	7500 - 13500	_	28	_	dB

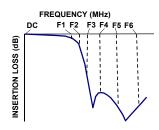
In Application where DC voltage is present at either input or output port, DC blocks are required.

^{*} Typically, a ±5% frequency deviation from the stated value may occur on a unit-to-unit basis.

Maximum Ratings			
Operating Temperature	-55°C to 125°C		
Storage Temperature	-55°C to 125°C		
RF Power Input*	5.5W max.@25°C		

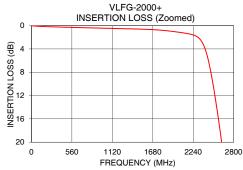
*Passband rating, derate linearly to 1W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

Typical Frequency Response

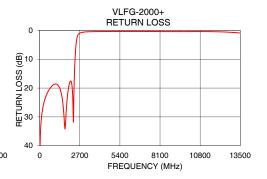


Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	0.04	42.93
100	0.12	31.19
300	0.21	24.71
500	0.29	21.84
700	0.35	20.05
1000	0.45	18.66
1500	0.60	23.15
2000	1.07	18.39
2350	2.62	13.19
2370	3.03	10.78
2510	9.86	2.62
2635	20.34	1.18
2725	29.63	0.88
2850	49.02	0.70
3300	66.56	0.50
5000	54.29	0.39
7500	44.25	0.41
9000	39.81	0.43
11000	33.19	0.43
13500	29.79	0.92







Notes
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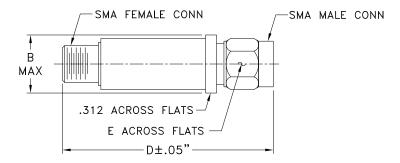
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Coaxial Connections

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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