VHFG-2100+

2200 to 6000 MHz

The Big Deal

- Excellent power handling, 4W
- Temperature stable
- Rugged unibody construction
- Good rejection, 47 dB typical



Generic photo used for illustration purposes only CASE STYLE: FF704

Product Overview

VHFG-2100+ is a 50Ω high pass filter built in rugged unibody construction. Covering 2200-6000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VHFG-2100+ offer low insertion loss, and excellent power handling capability. It handles up to 4W 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.	
4W 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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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.

C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Puchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

High Pass Filter

2200 to 6000 MHz 50Ω

VHFG-2100+



Generic photo used for illustration purposes only

+RoHS Compliant

CASE STYLE: FF704

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

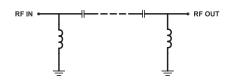
Features

- Temperature stable
- · Excellent power handling, 4W
- Connectorized package
- Rugged unibody construction

Applications

- Transmitters / Receivers
- · Global positioning system(GPS)
- · Satellite broadcast applications
- · Wireless local area Network

Functional Schematic



Electrical Specifications at 25°C **Parameter** F# Frequency (MHz) Min. Max. Unit Тур. DC-F1 DC - 1050 40 47 dB Rejection Loss DC-F2 DC - 1320 22 32 dB Stop Band Freq. Cut-Off F3* 2100 3.0 dB F4-F7 2200 - 6000 dB 2.0 Insertion Loss Pass Band F5-F6 2500 - 5000 1.0 1.8 dB Return Loss F5-F6 2500 - 5000 15 dB

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

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

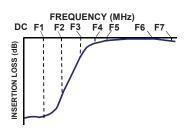
Maximum Ratings				
Operating Temperature	-55°C to 125°C			
Storage Temperature	-55°C to 125°C			
RF Power Input*	4W max.@25°C			

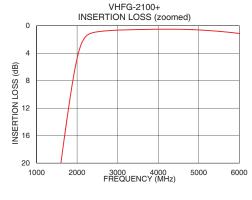
*Passband rating, derate linearly to 0.8W at 125°C ambient Permanent damage may occur if any of these limits are exceeded.

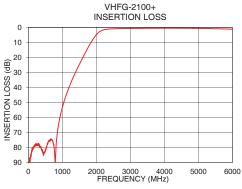
Typical Performance Data at 25°C

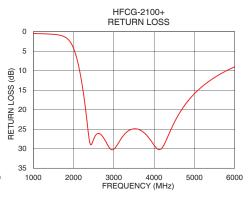
Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	92.86	0.12
250	78.78	0.26
700	74.96	0.41
950	57.60	0.46
1050	49.26	0.48
1320	33.16	0.57
1380	30.17	0.60
1600	20.03	0.79
1700	15.71	1.01
1900	7.83	2.37
2050	3.61	5.72
2100	2.73	7.61
2200	1.67	12.77
2300	1.20	19.99
2500	0.89	27.56
3000	0.65	30.16
4000	0.52	29.12
5000	0.62	15.90
5600	0.88	11.13
6000	1.13	9.01

Typical Frequency Response









Notes
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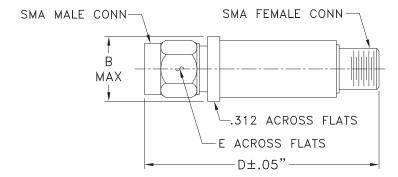
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Coaxial Connections

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

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