VHFG-1500+

 50Ω

1600 to 6000 MHz

The Big Deal

- Good power handling, 2.5W
- Temperature stable
- Rugged unibody construction
- Good rejection, 38 dB typical



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Product Overview

VHFG-1500+ is a 50Ω high pass filter built in rugged unibody construction. Covering 1600-6000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VHFG-1500+ offer low insertion loss, and good power handling capability. It handles up to 2.5W 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.	
2.5W 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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High Pass Filter

 50Ω

1600 to 6000 MHz

VHFG-1500+



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+RoHS Compliant

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

Тур.

38

37

3.0

2.0

1.2

2.0

28

Max.

1.9

Unit

dB

dB

dΒ

dB

dB

dB

dB

Features

- Temperature stable
- · Good power handling, 2.5W
- Connectorized package
- Rugged unibody construction

Applications

- Transmitters / Receivers
- Test and measurement
- Military applications
- · Telecommunications and broadband wireless systems



Functional Schematic



Parameter

Stop Band

Pass Band

Rejection Loss

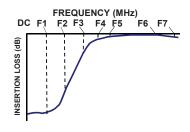
Freq. Cut-Off

Insertion Loss

Return Loss

*Passband rating, derate linearly to 0.5W at 125°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 - 800

800 - 1000

1400

1600 - 1900

1900 - 5000

5000 - 6000

1600 - 6000

DC-F1

F1-F2

F3*

F4-F5

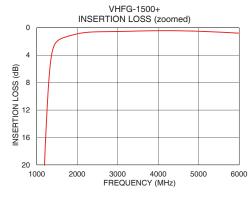
F5-F6

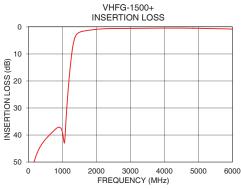
F6-F7

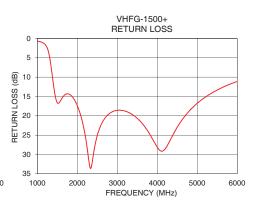
F4-F7

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.

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
10	73.64	0.11
100	54.46	0.16
800	37.81	0.48
1000	38.93	0.68
1120	31.88	1.01
1180	21.76	1.39
1200	18.91	1.59
1300	7.74	4.39
1400	3.12	11.60
1500	1.99	16.63
1600	1.59	15.77
1900	1.03	15.40
2000	0.89	17.35
2500	0.59	25.13
3000	0.54	18.58
4000	0.43	28.09
5000	0.51	16.78
5500	0.63	13.34
5700	0.69	12.34
6000	0.79	11.14







- Notes
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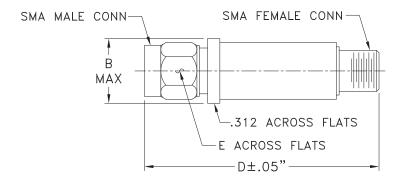
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Coaxial Connections

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

Outline Drawing



Outline Dimensions (inch)

В	D	Е	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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