VHFG-1600+

1650 to 5000 MHz

The Big Deal

- Excellent power handling, 4W
- Temperature stable
- Rugged unibody construction
- Good rejection, 53 dB typical



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Product Overview

VHFG-1600+ is a 50Ω high pass filter built in rugged unibody construction. Covering 1650-5000 MHz bandwidth, these units offer good matching within the passband and good rejection in stopband. VHFG-1600+ 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

1650 to 5000 MHz

VHFG-1600+



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+RoHS Compliant

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

Тур.

53

33

3.0

2.0

1.2

14

22

Max.

18

Unit

dB

dB

dB

dB

dВ

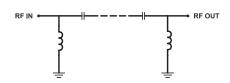
dΒ

Features

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

Applications

- Transmitters / Receivers
- · Global positioning system(GPS)
- · Satellite broadcast applications



Functional Schematic



Parameter

Stop Band

Pass Band

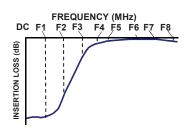
Rejection Loss

Freq. Cut-Off

Insertion Loss

Return Loss

Typical Frequency Response



Typical Performance Data at 25°C

Electrical Specifications at 25°C

Frequency (MHz)

DC - 700

DC - 950

1530

1650 - 5000

2000 - 4000

1700 - 4000

F#

DC-F1

DC-F2

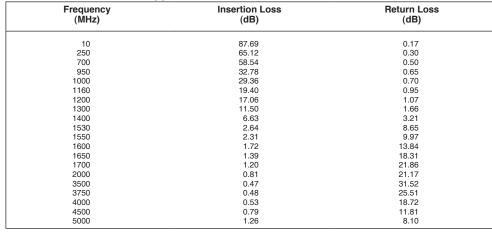
F3*

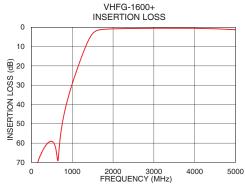
F4-F8

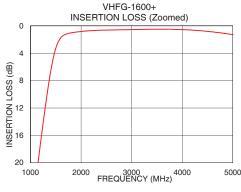
F6-F7

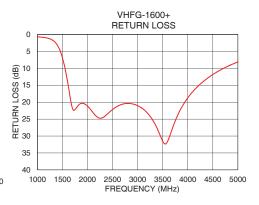
F5-F7

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









Notes
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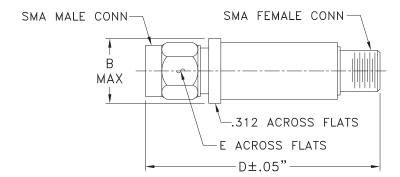
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Coaxial Connections

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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