

High Frequency Microwave Amplifier

Frequency Range: 500 MHz to 10 GHz



Features

Ultra Broad Bandwidth: 500 MHz to 10 GHz

• High Gain: 15 dB Typical

• Laser Welded Housing for Ultimate Environmental Protection

• Internal Voltage Regulator

• RoHS Compliant Option: Model BXHF1174LF



Model BXHF1174 is a high frequency amplifier covering 500 MHz -10 GHz. This design utilizes a laser sealed housing for superior environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version (Model #SXHF1174.) All specification ratings are based on measurements in a 50 Ω (ohm) system with a DC supply voltage tolerance of +/- 2%.

Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	GHz	500 MHz to 10 GHz	500 MHz to 10 GHz
Gain	dB	15	13.5
Noise Figure* (2 GHz to 10 GHz)	dB	4.0	5.0
Output Power @ 1 dB Compression	dBm	20	19
Output 3 rd Order Intercept	dBm	30	-
Output 2 nd Order Intercept	dBm	38	-
Reverse Isolation	dB	20	-
Input VSWR		1.7:1	2.0:1
Output VSWR		1.7:1	2.0:1
Supply Voltage	volts	+10 to +15	+10 to +15
Supply Current	mA	200	225

Maximum Ratings

Maximum (No Damage) Ratings		
Storage Temperature	-55°C to +85°C	
Operating Temperature	-40°C to +85°C	
DC Voltage @ 25°C	+18 volts	
Input Drive @ 25°C (CW)	+13 dBm	

Typical values are measured at 25°C, but not guaranteed.

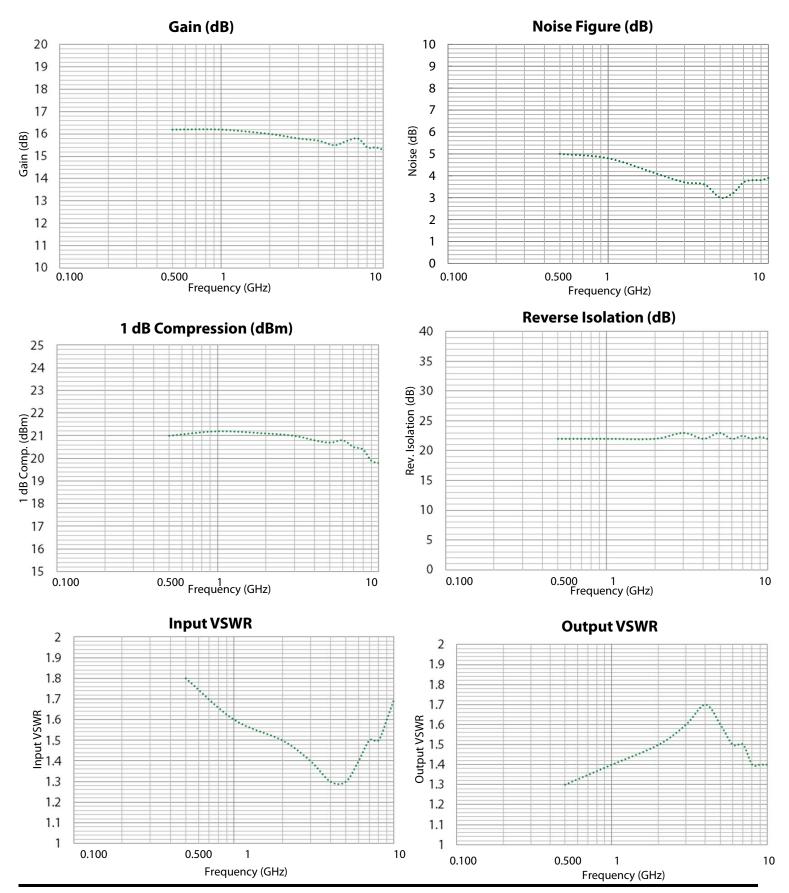
Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-20°C to +70°C
Housing Size	0.870" L x 1.060" W x 0.300" H
Housing Drawing	HF1 Package
RF Connectors	SMA Female Replaceable Connectors

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Model # BXHF1174

Typical Performance Graphs

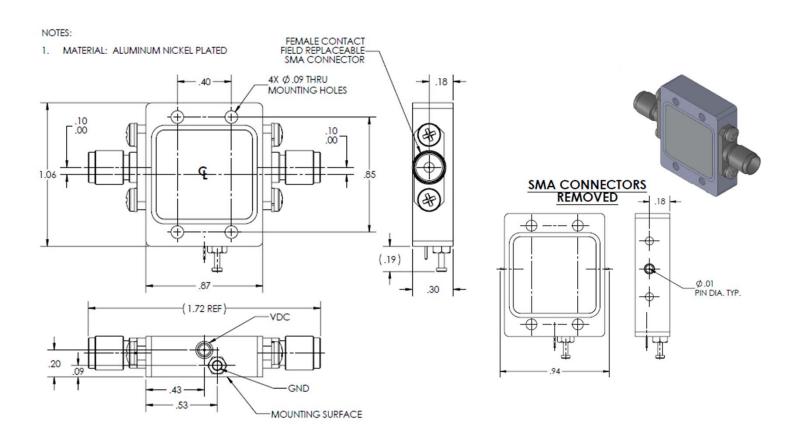


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Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	API reserves the right to make revisions to both product and/or the information contained within their datasheets without advanced notice.
Min./Max. Values	Specifications are guaranteed when tested in a 50 Ω (ohm) system.
Typical performance graphs and values are measured at 25°C, but not guaranteed.	

Outline Drawing (for reference only)



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