

High Frequency Microwave Amplifier Frequency Range: 2-10 GHz



Features

- High Frequency and Broad Bandwidth: 2-10 GHz
- Low Noise Figure: 4.0 dB Typical
- Laser Welded Housing for Ultimate Environmental Protection
- Internal Voltage Regulator
- RoHS Compliant Option: Model BXHF1064LF
 ROHS



Model BXHF1064 is a high frequency amplifier covering 2-10 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 #SXHF1064.) 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	2-10	2-10
Gain	dB	15	14
Noise Figure	dB	4.0	5.0
Output Power @ 1 dB Compression	dBm	20	19
Output 3 rd Order Intercept	dBm	27	-
Output 2 nd Order Intercept	dBm	34	-
Reverse Isolation	dB	35	-
Input VSWR		1.5:1	2.0:1
Output VSWR		1.5:1	2.0:1
Supply Voltage	volts	+12 to +15	+12 to +15
Supply Current	mA	200	220

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	1.500" L x 1.060" W x 0.300" H
Housing Drawing	HF2 Package
RF Connectors	SMA Female Replaceable Connectors

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Typical Performance Graphs



Rev Date: 9/10/2014

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10

8

6 Frequency (GHz) 25

20

2

6

Frequency (GHz)

8

4

10

Model # BXHF1064

Typical Performance Graphs



Frequency (GHz)



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





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