

High Frequency Microwave Amplifier Frequency Range: 6-10 GHz



Features

- High Frequency and Broad Bandwidth: 6-10 GHz
- High Output Power: +10 dBm Typical
- Laser Welded Housings for Ultimate Environmental Protection
- Internal Voltage Regulators
- RoHS Compliant Option: Model BXHF1063LF



Model BXHF1063 is a high frequency amplifier covering 6-10 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 #SXHF1063.) 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	6-10	6-10
Gain	dB	22	21
Noise Figure	dB	2.0	3.0
Output Power @ 1 dB Compression	dBm	10	8
Output 3 rd Order Intercept	dBm	22	-
Output 2 nd Order Intercept	dBm	29	-
Reverse Isolation	dB	23	-
Input VSWR		1.5:1	2.0:1
Output VSWR		1.5:1	2.0:1
Supply Voltage	volts	+5	+5
Supply Current	mA	125	145

Maximum Ratings

Maximum (No Damage) Ratings		
Storage Temperature	-55°C to +85°C	
Operating Temperature	-40°C to +85°C	
DC Voltage @ 25°C	+8 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

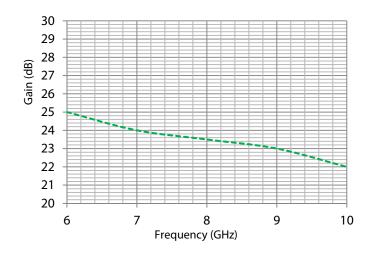
Rev Date: 9/10/2014

| micro.apitech.com | +1.888.553.7531

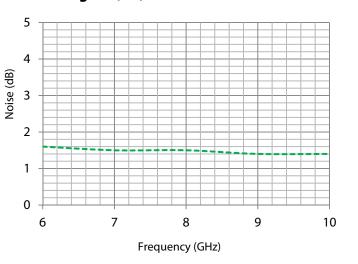
Model # BXHF1063

Typical Performance Graphs

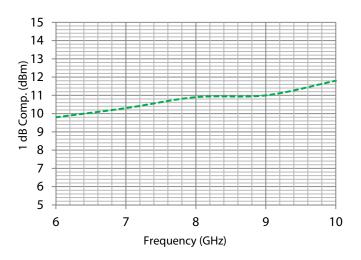
Gain (dB)



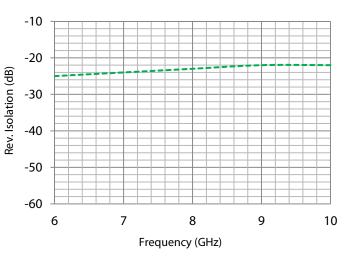
Noise Figure (dB)



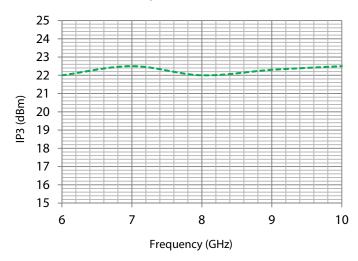




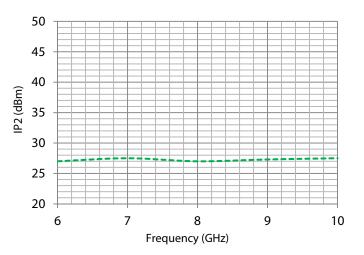
Reverse Isolation (dB)



3rd Order Intercept (dBm)



2nd Order Intercept (dBm)



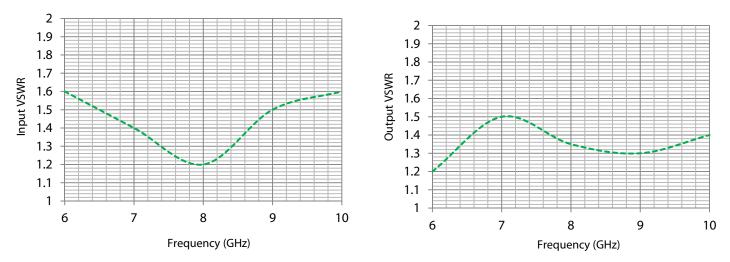
Rev Date: 9/10/2014

Model # BXHF1063

Typical Performance Graphs

Input VSWR





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

