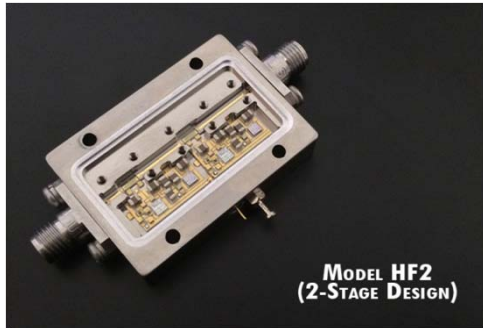



High Frequency Microwave Amplifier

Frequency Range: 2-20 GHz



Features

- Ultra Broad Bandwidth: 2-20 GHz
- High Gain: 26 dB Typical
- Laser Welded Housing for Ultimate Environmental Protection
- Internal Voltage Regulator
- RoHS Compliant Option (Model Number BXHF1084LF) 

Model BXHF1084 is a high frequency amplifier covering 2-20 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 #SXHF1084.) 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	2-20	2-20
Gain	dB	26	25
Noise Figure	dB	3.5	5.0
Output Power @ 1 dB Compression	dBm	17	-
Output 3 rd Order Intercept	dBm	27	-
Output 2 nd Order Intercept	dBm	33	-
Reverse Isolation	dB	50	-
Input VSWR	---	1.4:1	2.0:1
Output VSWR	---	1.4:1	2.0:1
Supply Voltage	volts	+12 to +15	+12 to +15
Supply Current	mA	150	180

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

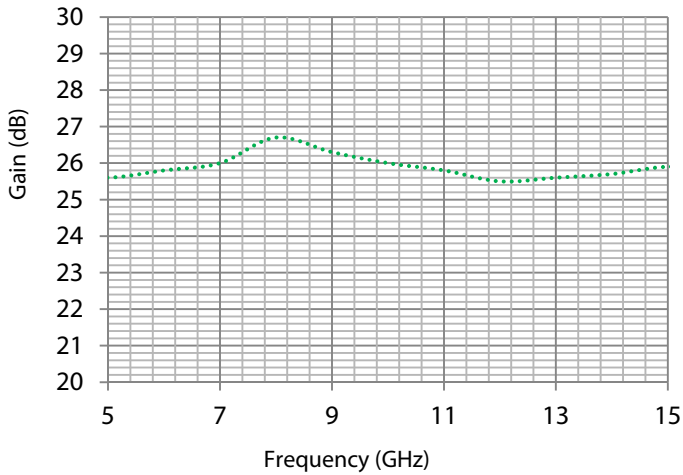
* Typical values are measured at 25°C, but not guaranteed.

Mechanical & Electrical

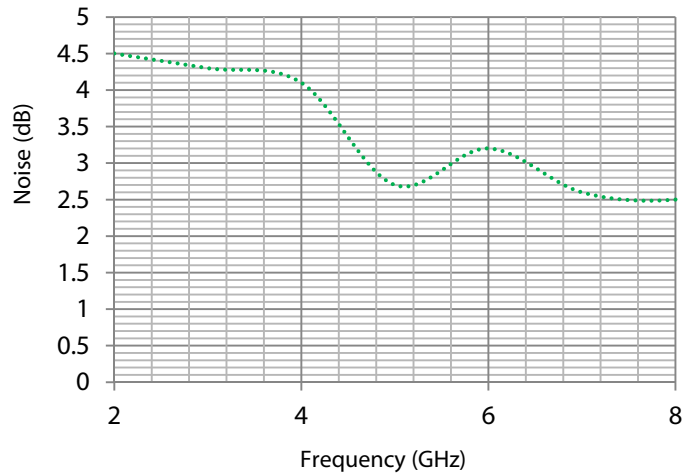
Parameter	Specification
Specification Temperatures (Min/Max)	-20°C to +70°C
Housing Size	1.500" L x 1.060" W x 0.300" H
Housing Drawing	HF2 Package
RF Connectors	SMA Female Replaceable Connectors

Typical Performance Graphs

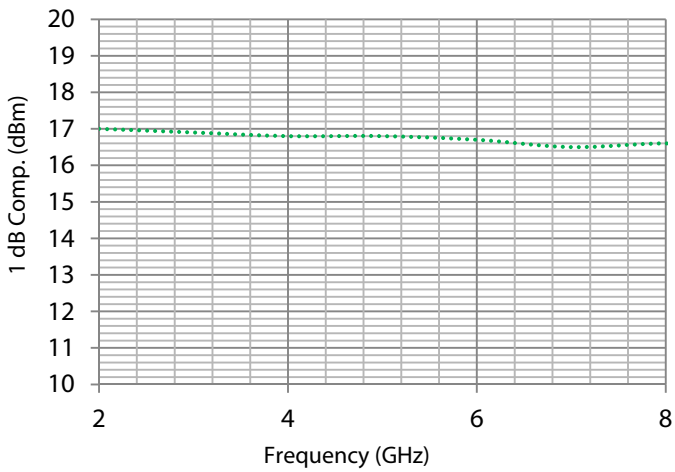
Gain (dB)



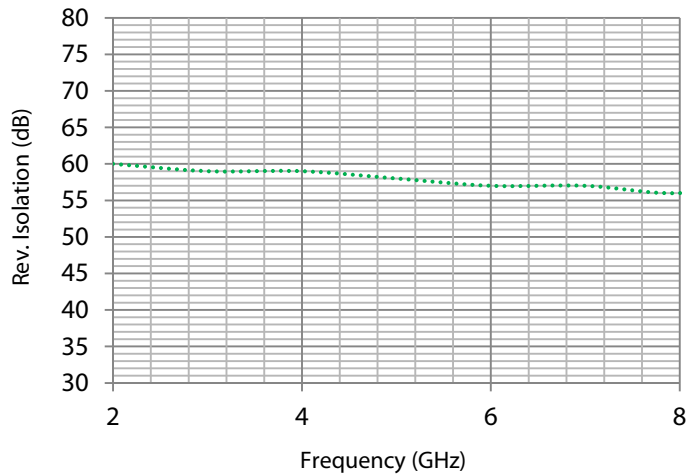
Noise Figure (dB)



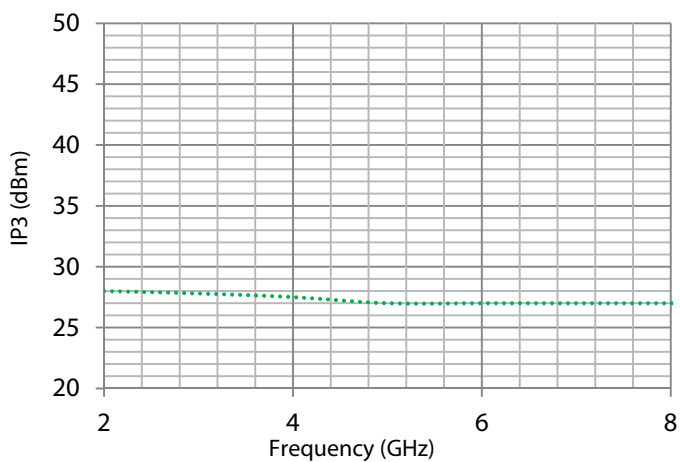
1 dB Compression (dBm)



Reverse Isolation (dB)



3rd Order Intercept (dBm)



2nd Order Intercept (dBm)

