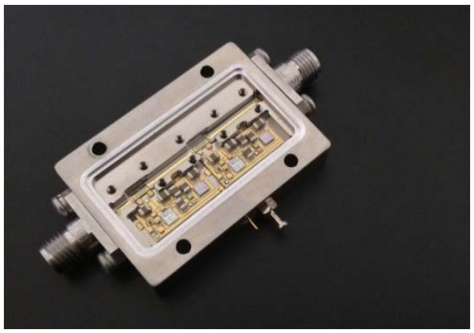
Model # BXHF1198

High Frequency Microwave Amplifier

Frequency Range: 8 to 12 GHz



Features

- High Frequency : 8-12 GHz
- High Gain: 30 dB Typical
- Laser Welded Housings for Ultimate Environmental Protection
- Internal Voltage Regulator
- RoHS Compliant Option: BXHF1198LF

Model BXHF1198 is a high frequency amplifier covering 8 to 12 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 #SXHF1198.) 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	8 to12	8 to 12
Gain	dB	30	28
Noise Figure	dB	2.8	3.5
Output Power @ 1 dB Compression	dBm	15	---
Output 3rd Order Intercept	dBm	26	---
Output 2nd Order Intercept	dBm	31	---
Reverse Isolation	dB	40	---
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.5:1	2.0:1
Supply Voltage	volts	+12	+12
Supply Current	mA	150	200

Absolute Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C	+15 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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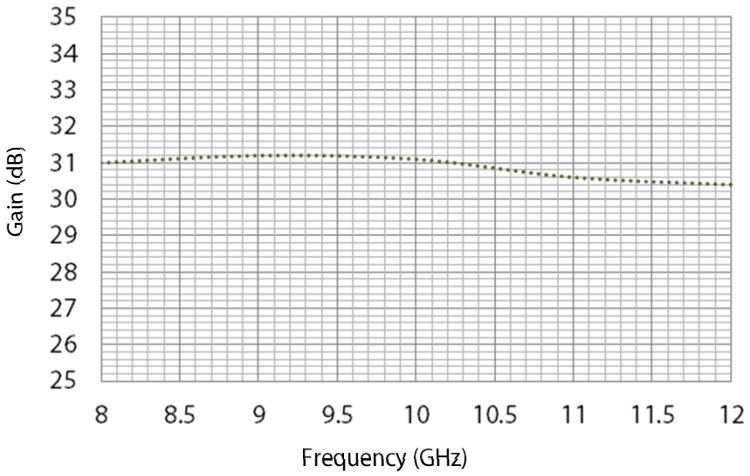
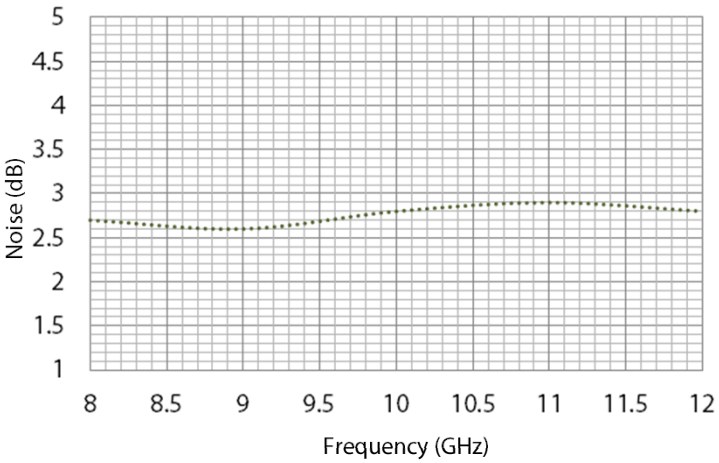
Typical Performance Graphs

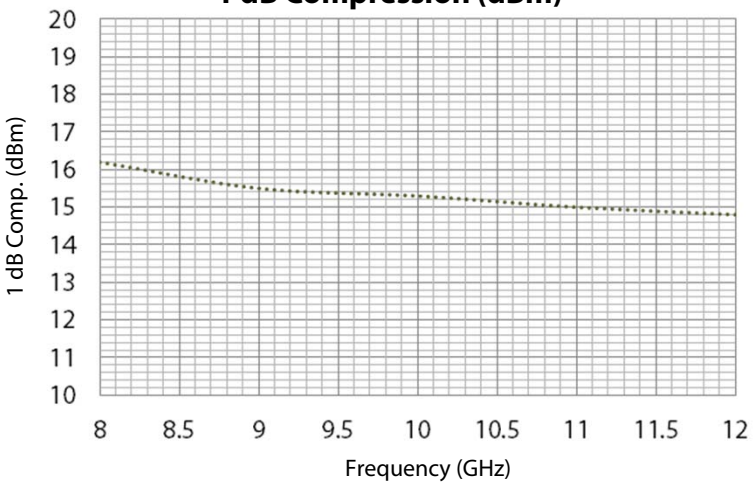
Gain (dB)



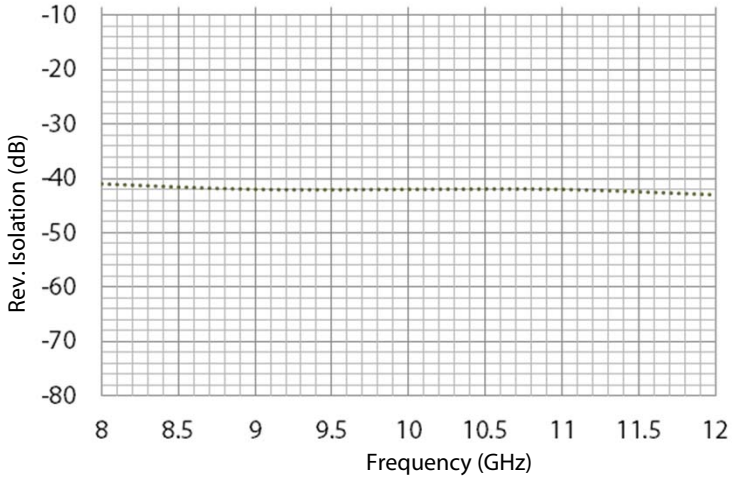
Noise Figure (dB)



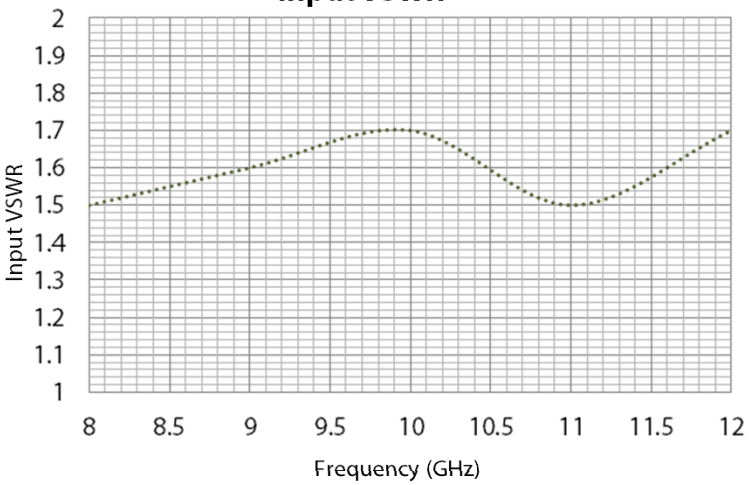
1 dB Compression (dBm)



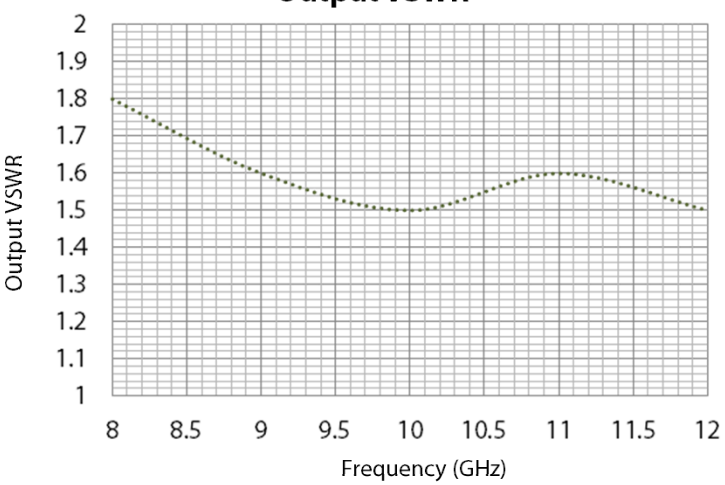
Reverse Isolation (dB)



Input VSWR



Output VSWR



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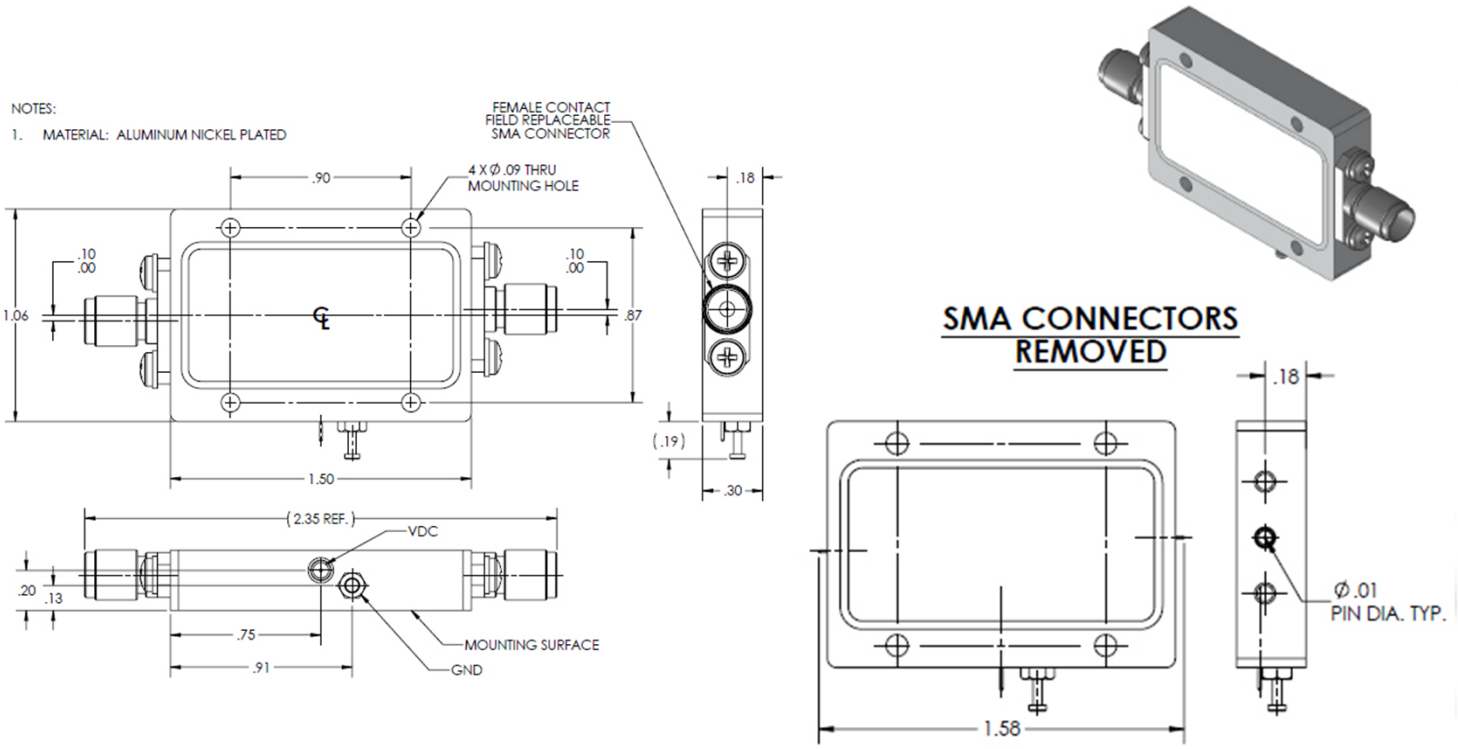
Instructions

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



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