

High Frequency Microwave Amplifier

Frequency Range: 5-15 GHz



Features

- High Frequency and Broad Bandwidth: 5-15 GHz
- High Output Power: +26 dBm Typical
- Laser Welded Housing for Ultimate Environmental Protection
- Internal Voltage Regulator
- RoHS Compliant Option: Model BXHF1083LF



Model BXHF1083 is a high frequency amplifier covering 5-15 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 #SXHF1083.) 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	5-15	5-15
Gain	dB	11	10
Noise Figure	dB	3.8	5.0
Output Power @ 1 dB Compression	dBm	25.5	-
Output 3 rd Order Intercept	dBm	35	-
Output 2 nd Order Intercept	dBm	45	-
Reverse Isolation	dB	45	-
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	370	400

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.

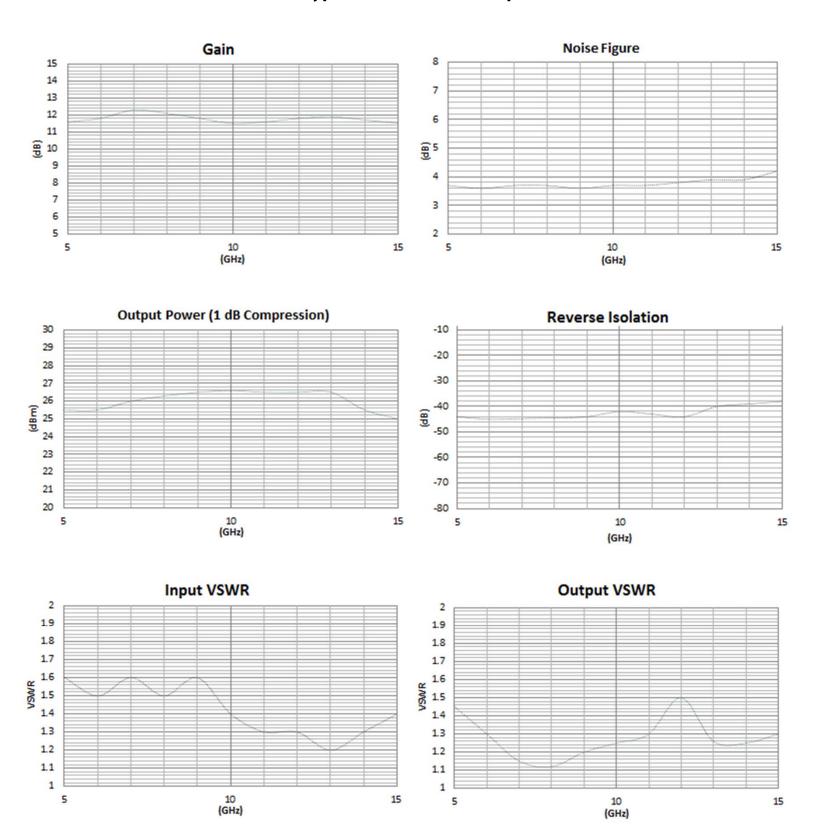
Mechanical & Electrical

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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Model # BXHF1083

Typical Performance Graphs



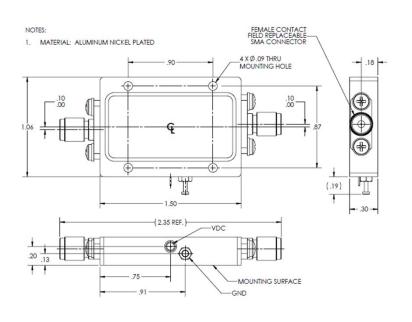
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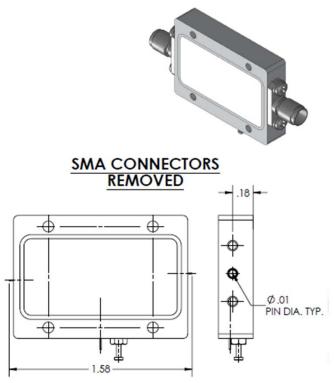
Typical Performance Graphs

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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