

Standard Microwave Amplifier

Frequency Range: 100 MHz to 25 GHz



Features

- Ultra Broad Bandwidth: 100 MHz to 25 GHz
- High Power: +25 dBm Typical
- Internal Voltage Regulator: +12 to +15 volts

Model BXHF1079 is a high frequency amplifier covering 100 MHz to 25 GHz. This design utilizes a laser sealed housing for superior environmental protection. 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	MHz	100 MHz to 25 GHz	100 MHz to 25 GHz
Gain	dB	10	9
Noise Figure	dB	5	8
Output Power @ 1 dB Compression*	dBm	25	22
Output 3 rd Order Intercept*	dBm	34	-
Output 2 nd Order Intercept*	dBm	40	-
Reverse Isolation*	dB	30	-
Input VSWR	---	2.0:1	2.2:1
Output VSWR	---	2.0:1	2.2:1
Supply Voltage	volts	+12 V to +15 V	+12 V to +15 V
Supply Current	mA	250	270

Maximum No Damage Ratings

Storage Temperature	-62°C to +125°C
Operating Temperature	-55°C to +85°C
DC Voltage @ 25°C	+18 volts
Input Drive @ 25°C (CW)	-5 dBm

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

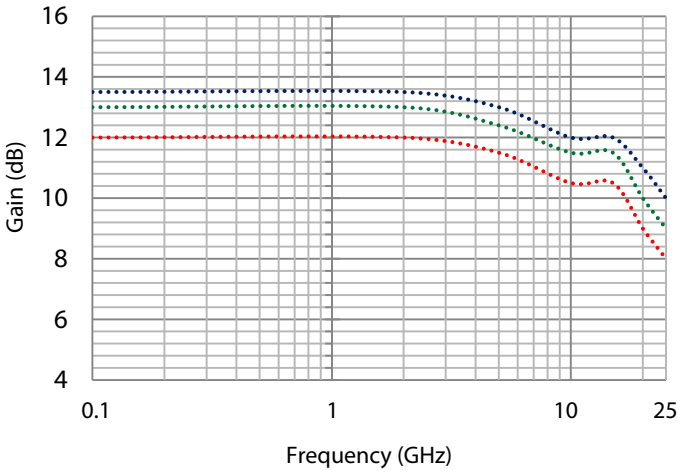
* Performance tested and measured to 20 GHz.

Mechanical & Electrical

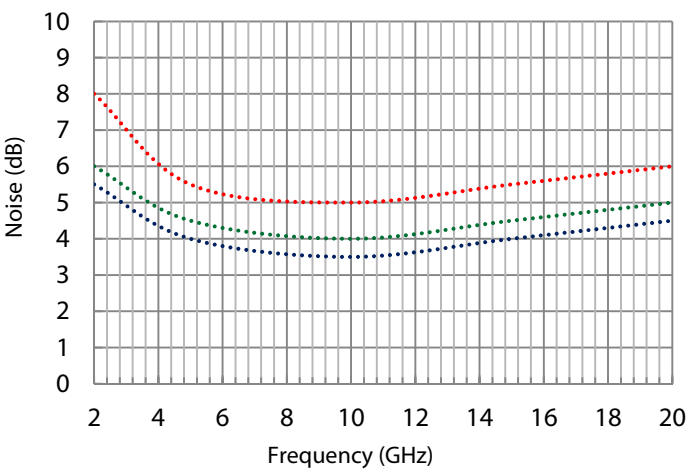
Parameter	Specification
Specification Temperatures (Min/Max)	-20°C to +75°C
Housing Size	1.50" L x 1.06" W x 0.30" H
Housing Drawing	SMA Connectorized Housing (HF2)

Typical Performance Graphs

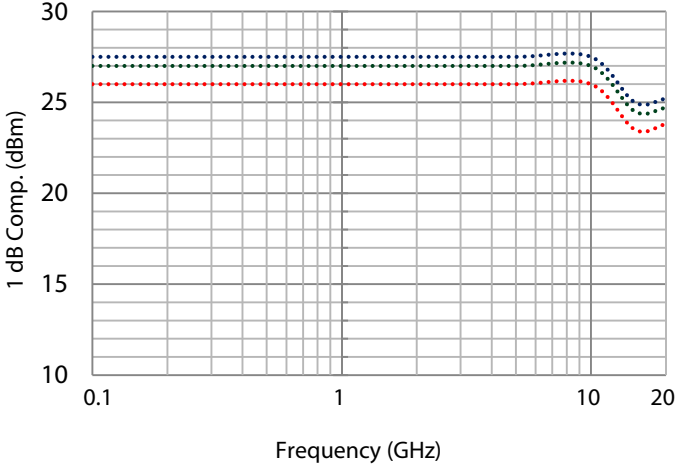
Gain (dB)



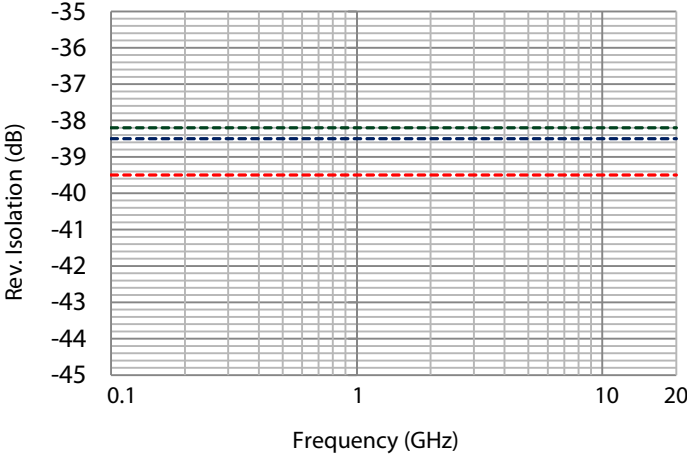
Noise Figure (dB)



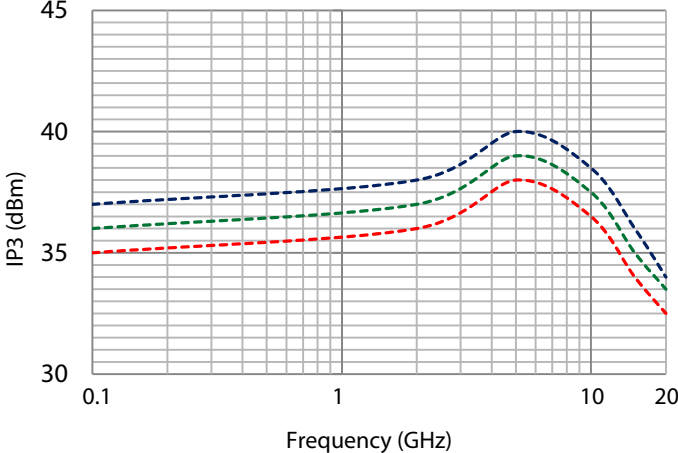
1 dB Compression (dBm)



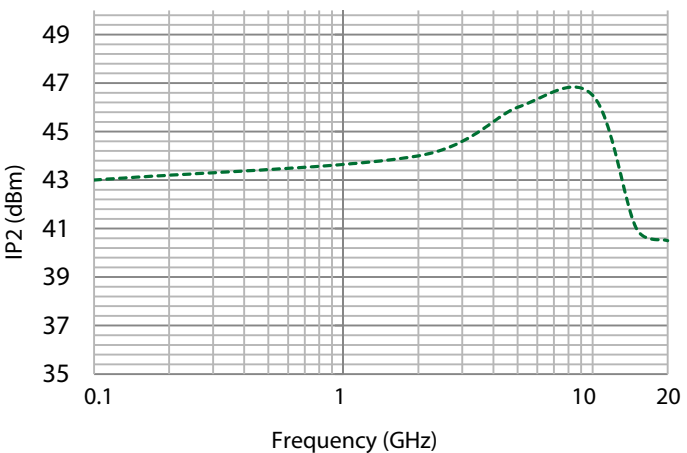
Reverse Isolation (dB)



3rd Order Intercept (dBm)

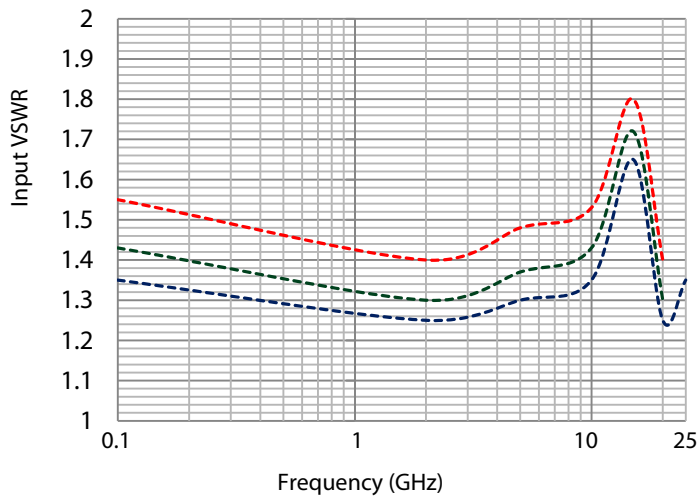


2nd Order Intercept (dBm)

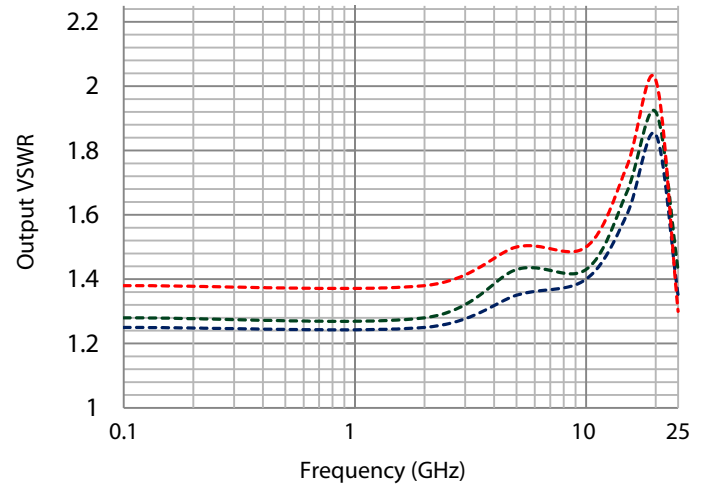


Typical Performance Graphs

Input VSWR



Output VSWR



Instructions

Grounding Instructions	Care should be taken to effectively ground each unit.
Revisions	Spectrum Control 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

