

Standard High Frequency Microwave Amplifier

Frequency Range: 10-15 GHz



Features

- High Frequency and Broad Bandwidth: 10-15 GHz
- High Gain: 31 dB Typical
- Laser Welded Housing for Ultimate Environmental Protection

Model BXHF1099 is a high frequency amplifier covering 10-15 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 #SXHF1099.) 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	10-15	10-15
Gain	dB	31 (+/- 1 dB)	30 (+/- 1 dB)
Noise Figure	dB	2.5	3.0
Output Power @ 1 dB Compression	dBm	11	10
Output 3 rd Order Intercept	dBm	18	-
Output 2 nd Order Intercept	dBm	23	-
Reverse Isolation	dB	50	-
Input VSWR	---	1.5:1	1.8:1
Output VSWR	---	1.5:1	1.8:1
Supply Voltage	volts	+15	+15
Supply Current	mA	175	225

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)	0°C to +50°C
Housing Size	1.500" L x 1.060" W x 0.300" H
Housing Drawing	HF2 Package
RF Connectors	SMA Female Replaceable Connectors