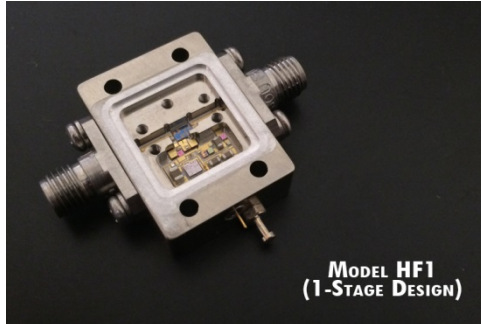


High Frequency Microwave Amplifier

Frequency Range: 2.5 to 6 GHz



Features

- High Frequency and Broad Bandwidth: 2.5-6 GHz
- High Output Power: +17 dBm Typical
- Laser Welded Housings for Ultimate Environmental Protection
- RoHS Compliant Option: Model BXHF1276LF

Model BXHF1276 is a high frequency amplifier covering 2.5-6 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 #SXHF1276.) 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	2.5 to 6	2.5 to 6
Gain	dB	20	19
Noise Figure*	dB	3.0	4.0*
Output Power @ 1 dB Compression	dBm	17	16
Output 3 rd Order Intercept	dBm	23	-
Output 2 nd Order Intercept	dBm	30	-
Reverse Isolation	dB	25	-
Input VSWR	---	1.5:1	2.0:1
Output VSWR	---	1.2:1	2.0:1
Supply Voltage	volts	+5	+5
Supply Current	mA	135	145

Maximum Ratings

Maximum (No Damage) Ratings	
Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C	8 volts
Input Drive @ 25°C (CW)	+13 dBm

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

*NF performance 0.5 dB higher from 5-6 GHz

Mechanical & Electrical

Parameter	Specification
Specification Temperatures (Min/Max)	-20°C to +70°C
Housing Size	0.870" L x 1.060" W x 0.300" H
Housing Drawing	HF1 Package
RF Connectors	SMA Female Replaceable Connectors

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

(For Reference Only)

