

High Frequency MMW Amplifier

Frequency Range: 43-44 GHz



Features

- Millimeter Wave Operation
- Laser Sealed Housing
- Internal Voltage Regulation
- Dual Stage Amplifier

The Model BXHF1075 is standard high frequency amplifier covering 43 GHz to 44 GHz. This two stage design, utilizes a laser sealed housing for the ultimate in environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version as a model SXHF1075. All specification ratings are based on measurements in a 50 ohm system with a DC supply voltage tolerance of +/- 2%.

Technical Specifications

Parameter	Unit	Typical	Min/Max
Frequency Range	GHz	43 - 44	43 - 44
Gain	dB	31	28 Min.
Gain Flatness	dB	+/- 1.0	+/- 2.0 Max.
Noise Figure	dB	5.0	5.5 Max.
Output Power @ 1 dB Compression	dBm	+17	+15 Min.
Output 3 rd Order Intercept	dBm	+27	--
Output 2 nd Order Intercept	dBm	+37	--
Reverse Isolation	dB		
Input VSWR	---	2.0:1	2.2:1 Max.
Output VSWR	---	2.0:1	2.2:1 Max.
Supply Voltage	volts	+12 to +15	+12 to +15
Supply Current	mA	300	325

Maximum (No Damage) Ratings

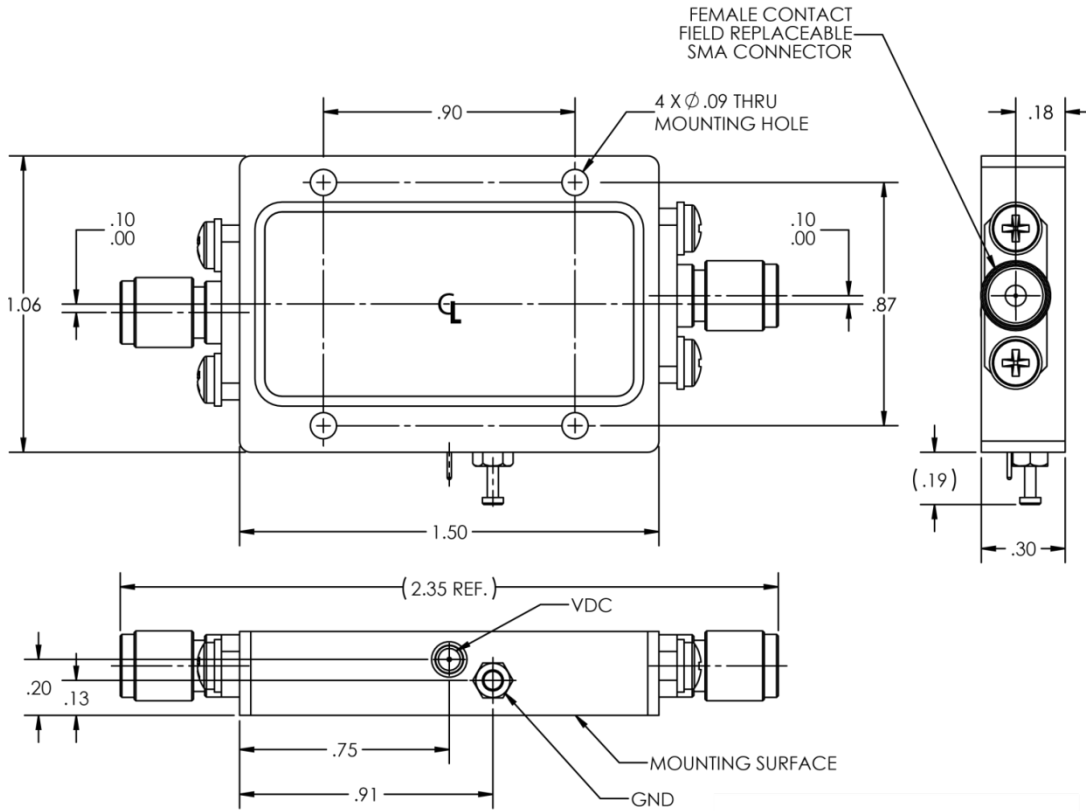
Parameter	Unit
Storage Temperature	-55°C to +85°C
Operating Temperature	-40°C to +85°C
DC Voltage @ 25°C	+18 volts
Input Drive @ 25°C (CW)	-5 dBm

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

Mechanical & Electrical

Parameter	Specification
Housing Size	1.500" L x 1.060" W x 0.300" H
Housing Drawing	HF2
RF Connectors	2.4 mm Female Replaceable Connectors

Package Outline Drawing



SMA CONNECTORS REMOVED

