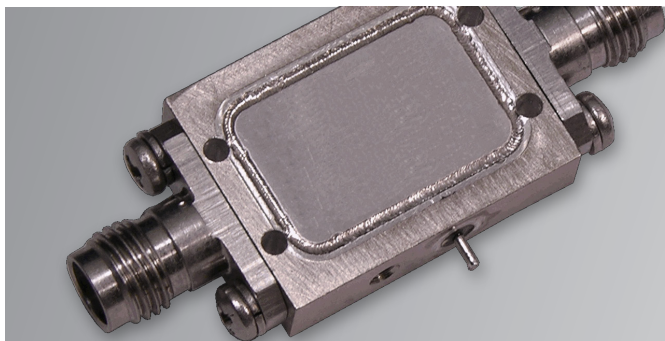


43 GHz to 44 GHz Microwave Amplifier



Features

- Millimeterwave Operation
- Laser Sealed Housing
- Internal Voltage Regulator
- Dual Stage Amplifier

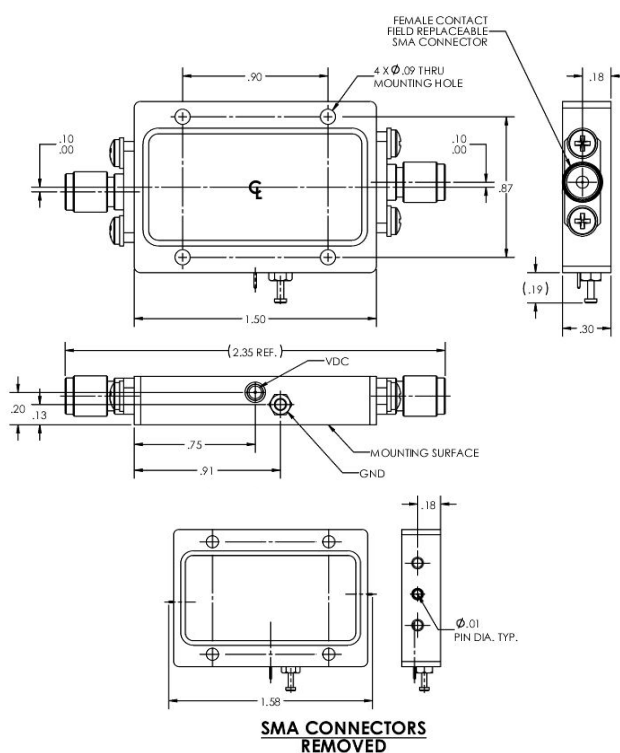
The Model BXHF1075 is standard high frequency amplifier covering 43 GHz to 44 GHz. This two stage design, utilizes a laser sealed housing for the ultimate in environmental protection. This standard design may also be ordered in a screened MIL-STD-883 version as a model SXHF1075. All specification ratings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

Technical Specifications

Parameter	Typical	Min. / Max.
Frequency Range	43 GHz to 44 GHz	43 GHz to 44 GHz
Gain	31 dB	28 dB Min.
Gain Flatness	+/- 1.0 dB	+/- 2.0 dB Max.
Input VSWR	2.0:1	2.2:1 Max.
Output VSWR	2.0:1	2.2:1 Max.
Output Power at 1 dB Compression	+17 dBm	+15 dBm Min.
Output 3rd Order Output Intercept Point	+27 dBm	N/A
Output 2nd Order Output Intercept Point	+37 dBm	N/A
Noise Figure	5.0 dB	5.5 dB Max.
Supply Voltage	+12 volts to +15 volts	+12 volts to +15 volts
Supply Current	300 mA	325 mA Max.
RF Connectors	2.4 mm Female Replaceable Connectors	

Typical values are measured at 25°C but not guaranteed.
Revision: 7/10/2013

Outline Drawing



Minimum (No Damage) Results	
Storage Temperature	-55°C to +85°C
Operating Temperature (Case)	-40°C to +85°C
DC Voltage @ 25°C	+18 VDC
Input Drive @ 25°C (CW)	-5 dBm

Rev: 09/20/13