

The **SM2325-37H** is a solid state GaAs amplifier designed for multiple wireless markets. With **200 MHz of instantaneous bandwidth**, the amplifier can be used in Industrial Scientific Medical (ISM), Wireless Communications Systems (WCS), and Wireless Local Loop (WLL) applications. This unit operates over a frequency range of 2300-2500 MHz, provides 34 dB of gain with a gain flatness of  $\pm 0.25$  dB, has a 1 dB compression point of +37 dBm, and an output third order intercept point of +51 dBm. The amplifier runs off a single supply voltage of +12 V. This design uses the latest surface mount technologies to provide numerous features, while maintaining a very small size. It is available standard in modular form.



### Features

- Mis-Match Protected
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

### Options

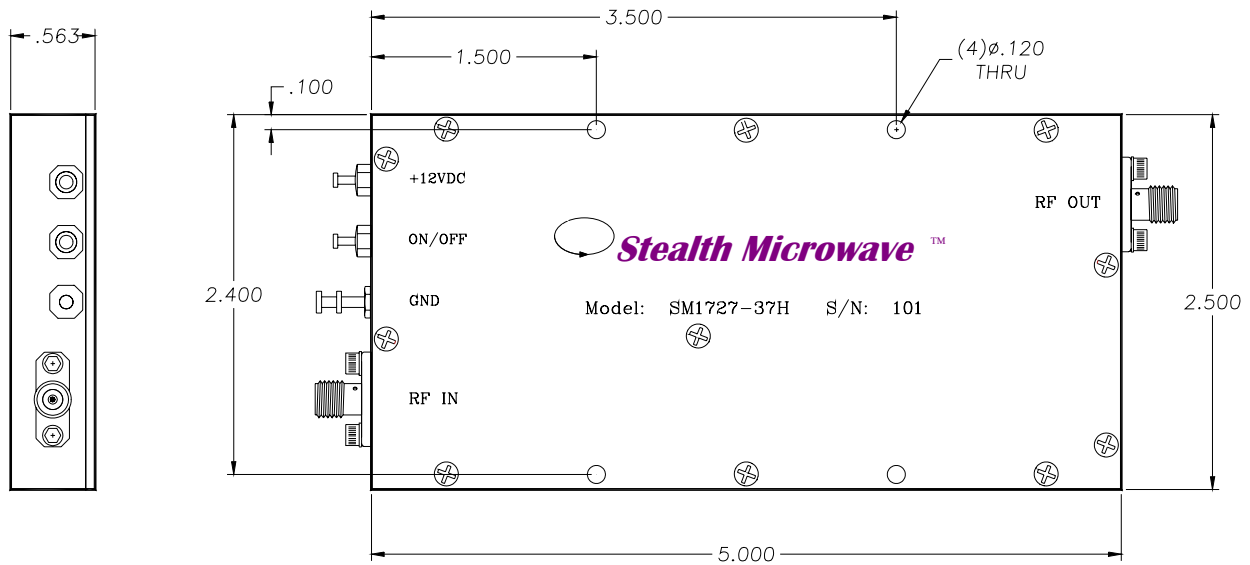
- Integral Heatsink
- Logic On/Off Control

### Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	2.3 – 2.5 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 51 dBm
Linear Gain	34 dB $\pm$ 1.0 dB (20 dB version available)
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output VSWR	1.4:1/1.5:1
DC Input Voltage	+ 12 Volts
DC Input Current	1.9 Amperes
Mechanical Dimensions (Without Heatsink)	5.0 x 2.5 x 0.563 inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

**DIMENSIONS IN INCHES**



Pin	Description	Values
RF Input	Input Connector (SMA Female)	+5 dBm typ.
RF Output	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 1.9 Amperes
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

Specifications subject to change without notice.