

The **SM1727-37** and **SM1727-37H** are solid state GaAs amplifiers designed for multi-purpose use in the wireless markets. With **1 GHz of bandwidth**, these small amplifiers can be used in DCS1800, ISM, WLL, PCS and MMDS applications. These units operate over a frequency range of 1700-2700 MHz, the 1 dB compression point is +37 dBm, and the output third order intercept point is +51 dBm. Of the two versions available, the **-37** has 20 dB of linear gain, and the **-37H** has 33 dB of linear gain. The gain flatness over the full frequency band is just ± 0.35 dB.



Features

- Single DC Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

Options

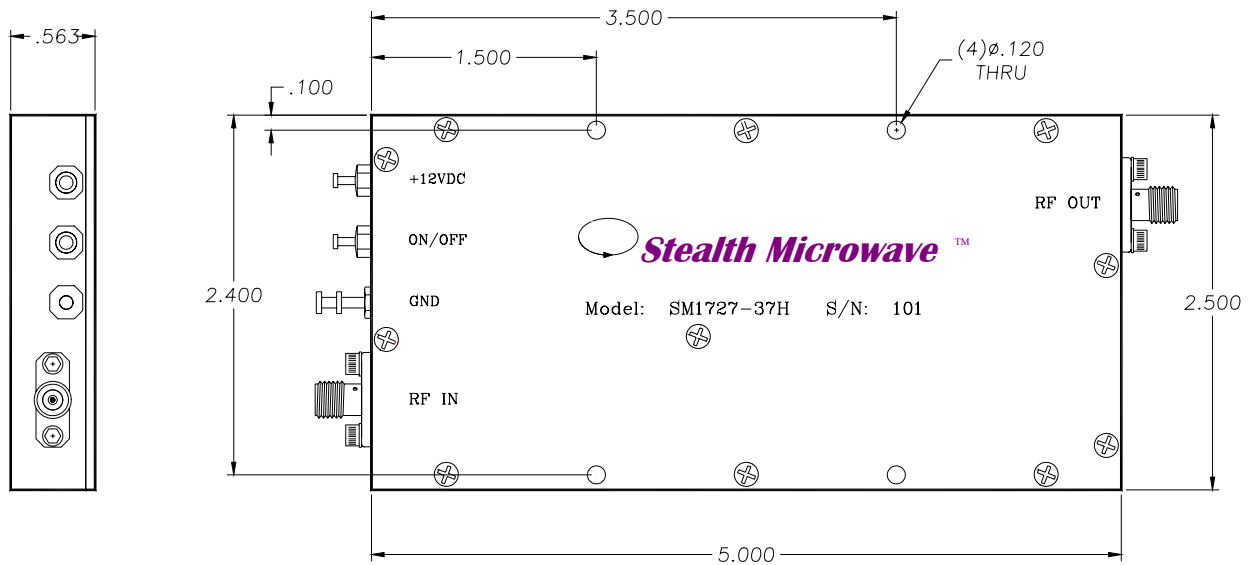
- Harmonic Filter
- Logic On/Off Control

Configurations

- Module
- Laboratory Unit
- 19" Rack

Item	SM1727-37	SM1727-37H
Frequency Range	1.7 - 2.7 GHz	1.7-2.7 GHz
Pout (P1dB)	+ 37 dBm	+37 dBm
Third Order Intercept Point	+ 51 dBm	+51 dBm
Linear Gain	20 dB \pm 1.0 dB	33 dB \pm 1.0 dB
Gain Flatness over Full Band	\pm .5 dB	\pm .5 dB
Input/Output Return Loss	-11/-14 dB	-16/-14 dB
DC Input Voltage	+ 12 Volts	+12 Volts
DC Input Current	1.9 Amperes	1.9 Amperes
Mechanical Dimensions	5.0 x 2.5 x .563 in.	5.0 x 2.5 x .563 in.
RF Connectors	SMA Female	SMA Female
Operating Temperature	0° C to +55° C	0° C to +55° C
Operating Humidity	95% Non-condensing	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level	Up to 10,000 feet above Sea Level

DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	+18 dBm typ. for -37, +5 dBm typ. for -37H
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.