

The **SM08010-37HS** is a solid state GaAs amplifier designed primarily for the GSM (Global Standard for Mobile) market. This amplifier operates from 800-1000 MHz, provides 37 dB of gain,  $\pm 0.5$  dB gain flatness over the full band, and +37 dBm of output power at the 1 dB compression point. This highly linear design provides an output third order intercept point of + 50 dBm. The amplifier operates off a single supply of +12V (+10V available as an option) and 1.9 A typical. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.

### Features

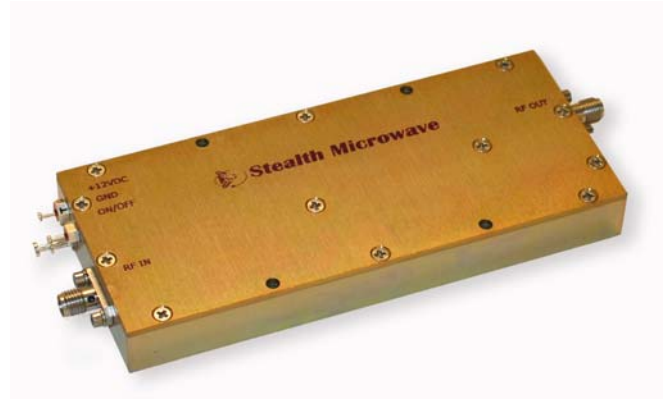
- Mis-Match Protected
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset

### Options

- Logic On/Off Control
- Integral Heatsink
- Single DC Supply of +10 V

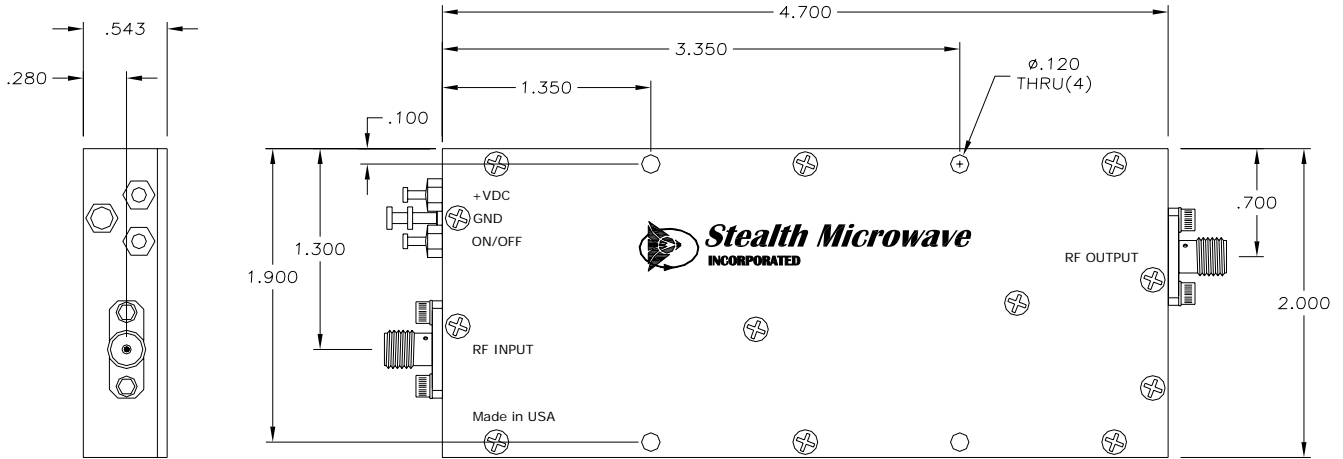
### Configurations

- Module
- 19" Rack

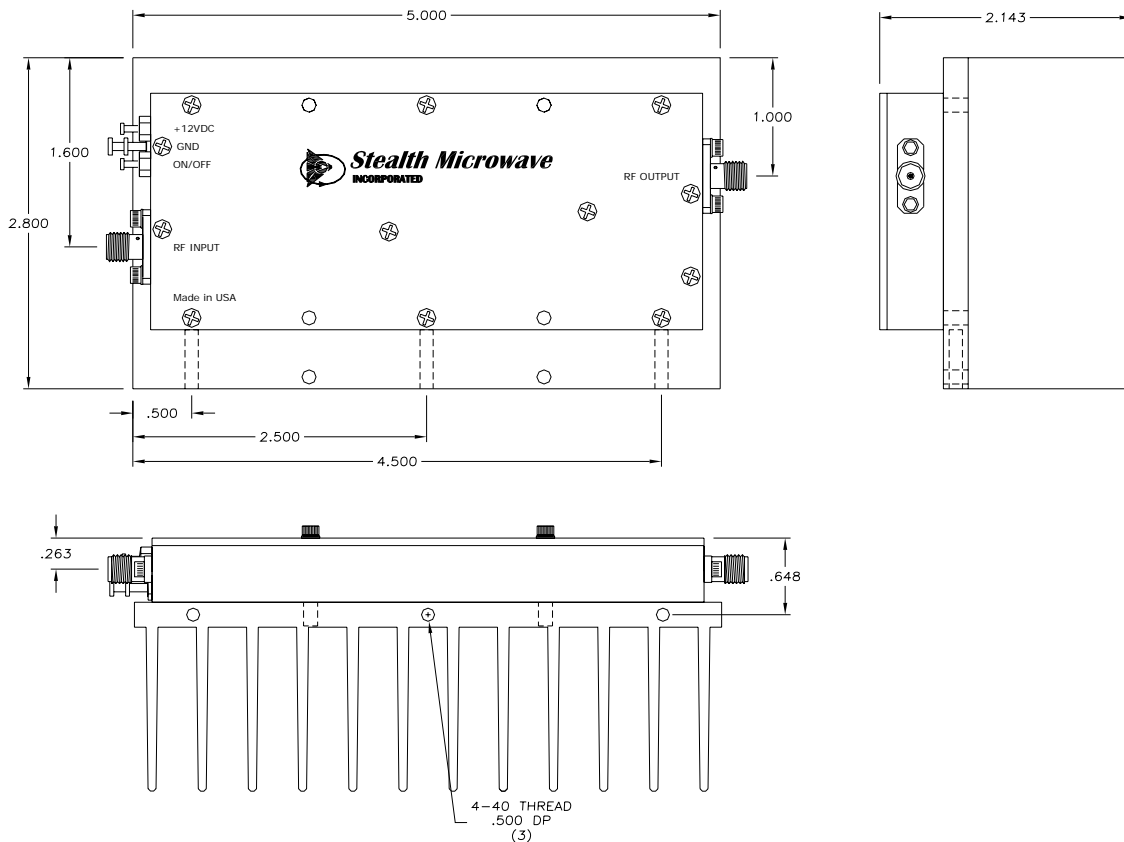


Parameter	Specification
Frequency Range	800 - 1000 MHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 50 dBm (typ.)
Linear Gain	37 dB $\pm$ 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16 dB
DC Input Voltage	+12 Volts (+10 V available)
DC Input Current	1.9 Amperes (typ.), 2.1 Amperes (max.)
Mechanical Dimensions	4.7x2.0x.54 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**



**HEATSINK OPTION**



<b>Pin</b>	<b>Description</b>	<b>Values</b>
RF Input	Input Connector (SMA Female)	0 dBm typ.
RF Output	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+10 VDC	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.*