

The SM2040-37 is a small, highly linear amplifier designed for multipurpose use in military and wireless applications. Operating from 2 to 4 GHz, the amplifier is suited for laboratory use as well as UMTS, ISM, MMDS, and WLL applications. Output power at P1dB is +37 dBm (min.) with a +47 dBm (min.) OIP3. Linear gain is 20 dB with  $\pm .75$  dB flatness across the entire frequency band. The unit operates from +12 Volts and consumes 2.9 Amps., (+10V operation is available).

### Features

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

### Options

- TTL Logic On/Off Control
- Heatsink
- +10VDC Operation

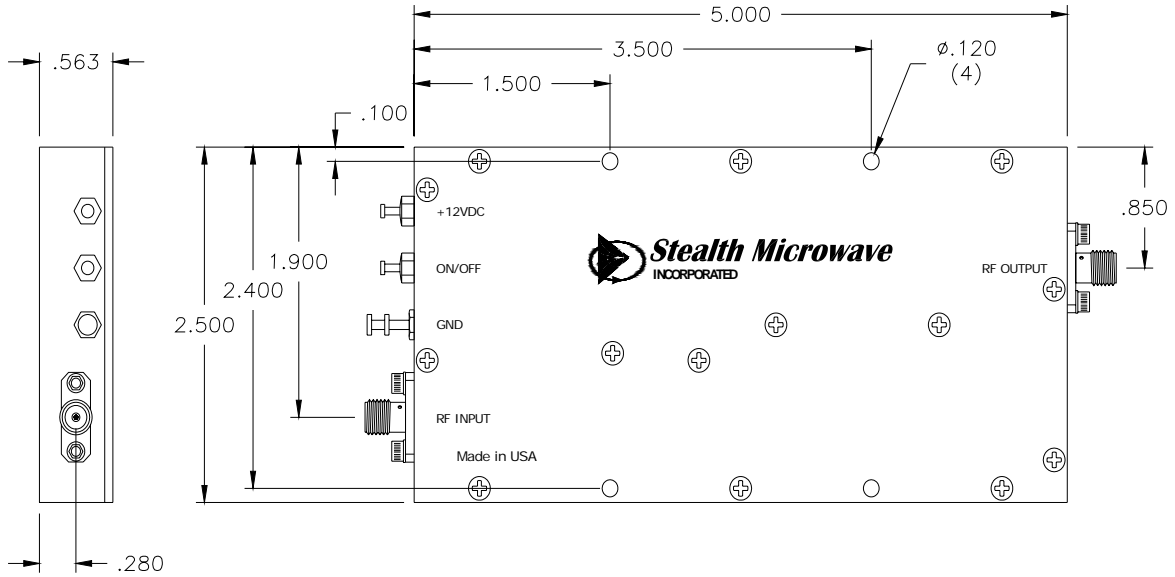
### Configurations

- Module
- Bench-Top-Lab Unit
- 19" Rack Mount

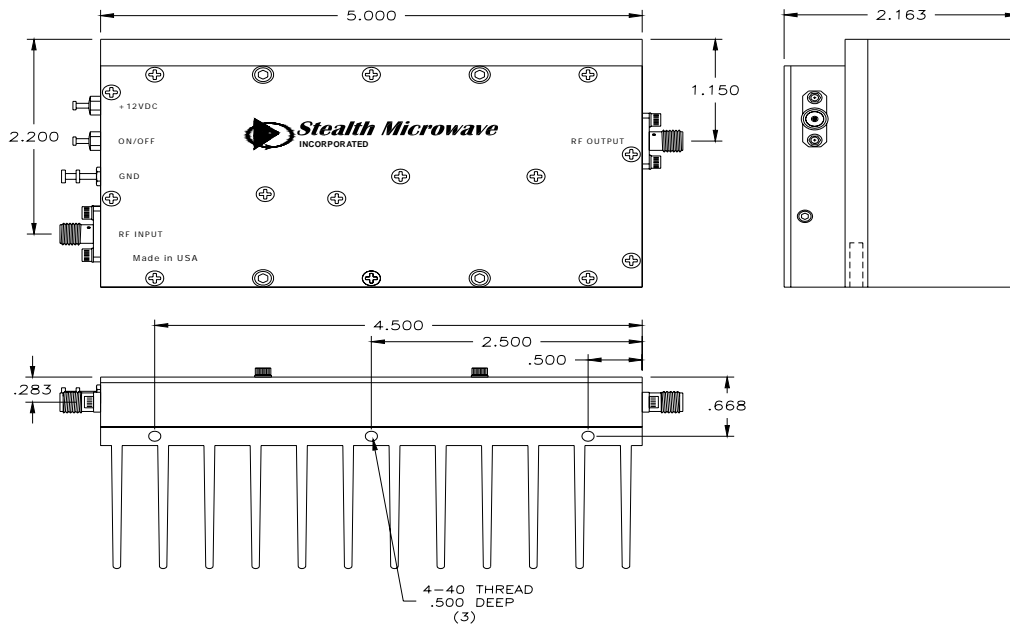


Parameter	Specification
Frequency Range	2.0 – 4.0 GHz
Pout (P1dB)	+37 dBm (min)
Output Third Order Intercept Point (OIP3)	+47 dBm (typ.)
Linear Gain	37 $\pm$ 1.0 dB
Gain Flatness (over full band)	$\pm .75$ dB
Input/Output Return Loss	-8 dB / -8 dB
DC Input Voltage	+12 Volts
DC Input Current	2.9 Amperes
Mechanical Dimensions (Without Heatsink)	5.0 x 2.5 x .563 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

**DIMENSIONS IN INCHES**



**DIMENSIONS WITH HEATSINK**



Pin	Description	Values
RF IN	Input Connector (SMA Female)	+ 19 dBm (max.)
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 2.9 Amps.
ON/OFF	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

*Specifications subject to change without notice.*