

Stealth Microwave's **SM4450-37S** is an affordable solid state GaAs amplifier designed for the wireless market. With **600 MHz of instantaneous bandwidth**, the amplifier can be used in unlicensed ISM applications. The amplifier operates from 4.4 – 5.0 GHz, provides 20 dB of linear gain, has a P1dB of +37 dBm, and an OIP3 of +48 dBm. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.

Features

- Mis-Match Protected
- Over Voltage Protection
- Thermal Protection with Auto Reset

Options

- TTL Logic On/Off Control
- Heatsink
- +10V Supply

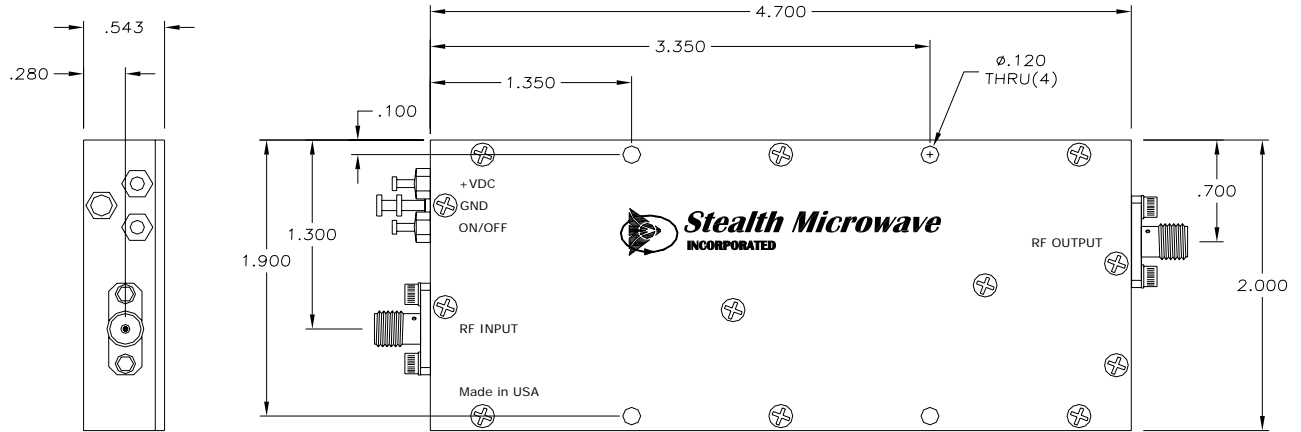
Configurations

- Module
- Laboratory Unit
- 19" Rack

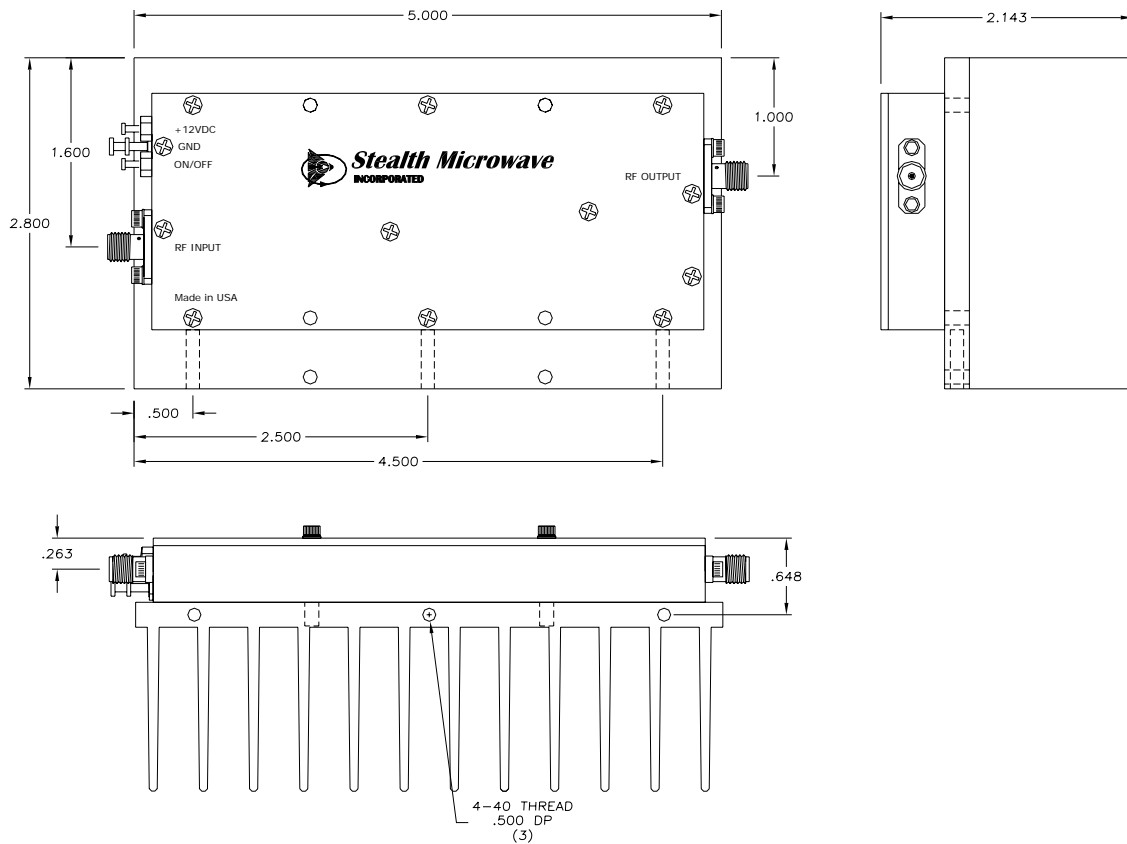


Parameter	Specification
Frequency Range	4.4 – 5.0 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	22 dB ± 1.0 dB
Gain Flatness over Full Band	± .5 dB
Input/Output Return Loss	-16 dB / -16 dB
DC Input Voltage	+12 Volts
DC Input Current	2.1 Amperes (typ.)
Mechanical Dimensions (Without Heatsink)	4.7 x 2.0 x .54 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	-20°C to +80°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

DIMENSIONS IN INCHES



HEATSINK OPTION



Pin	Description	Values
RF IN	Input Connector (SMA Female)	+17 dBm typ.
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 2.1 Amperes typ.
ON/OFF	TTL Logic On/Off	+5 Volts = On, 0 Volts = Off

Specifications subject to change without notice.