

Stealth Microwave's **SM6471-37S** is an affordable solid state GaAs amplifier designed for telecommunications and digital video broadcasting. With **800 MHz of instantaneous bandwidth**, the amplifier can be used from 6.4 to 7.125 GHz. The module provides 14 dB of linear gain, has a P1dB of +37 dBm, and an OIP3 of +47 dBm. 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

- TTL Logic On/Off Control
- Heatsink
- Single DC Supply of +10V
- FWD. and REV. Power Detection

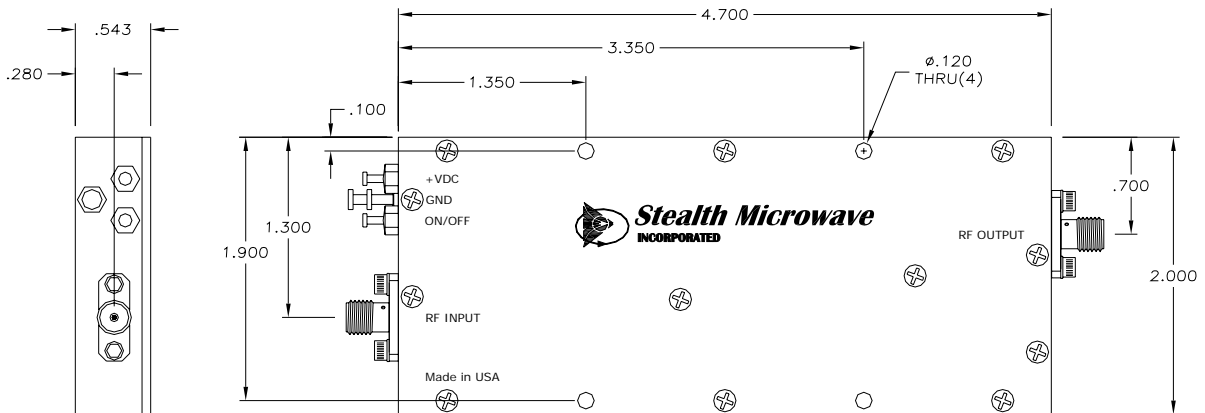
Configurations

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

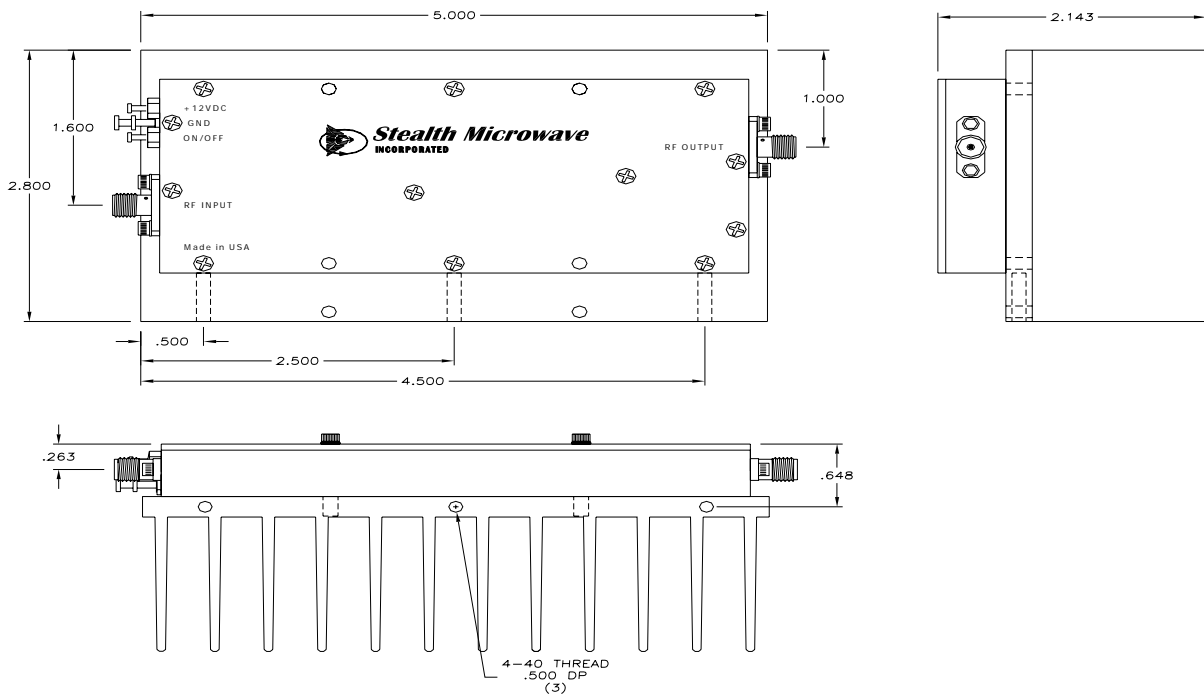


Parameter	Specification
Frequency Range	6.4 – 7.125 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	18 dB ± 1.0 dB
Gain Flatness over Full Band	± 1 dB
Input/Output Return Loss	-12 dB/-16 dB
DC Input Voltage	+12 Volts
DC Input Current	2.2 Amperes
Mechanical Dimensions (Without Heatsink)	4.7 x 2.0 x .54 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +65°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)	+21 dBm typ.
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 2.2 Amperes
ON/OFF	TTL Logic On/Off	+5 Volts = On, 0 Volts = Off

Specifications subject to change without notice.