

Stealth Microwave's **SM5759-37HS** is an affordable solid state GaAs amplifier designed for the 5.8 GHz wireless market. With **200 MHz of instantaneous bandwidth**, the amplifier can be used in unlicensed ISM applications. The amplifier operates from 5.7 to 5.9 GHz, provides 37 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

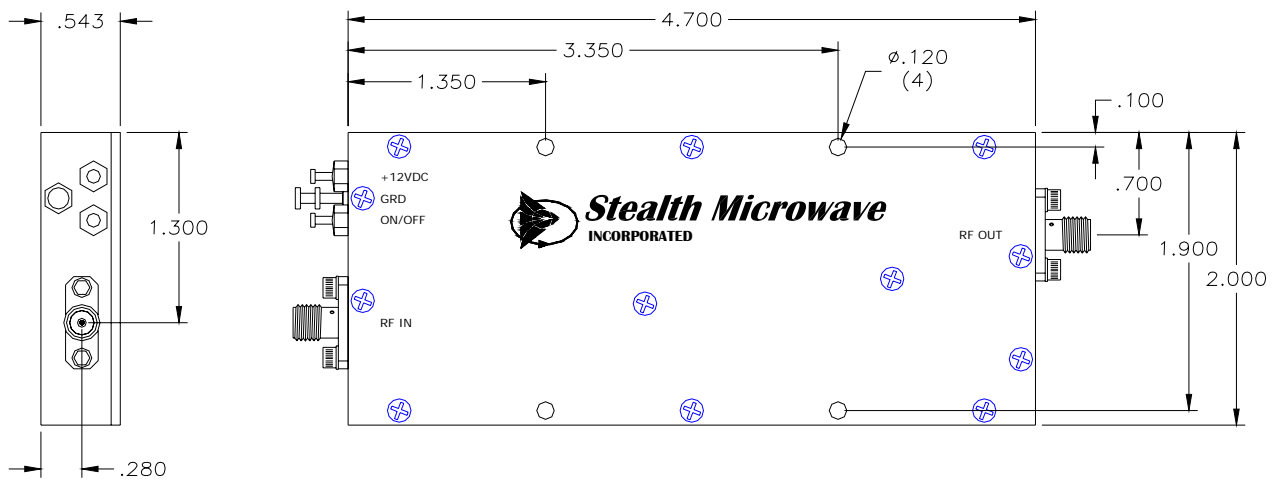
Configurations

- Module
- Laboratory Unit
- 19" Rack



Parameter	Specification
Frequency Range	5.7 – 5.9 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	38 dB ± 1.0 dB
Gain Flatness over Full Band	± .5 dB
Input/Output Return Loss	-16 dB
DC Input Voltage	+12 Volts
DC Input Current	2.3 Amperes
Mechanical Dimensions	4.7 x 2.0 x .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



Pin	Description	Values
RF IN	Input Connector (SMA Female)	+4 dBm typ.
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 2.3 Amperes
ON/OFF	TTL Logic On/Off	+5 Volts = On, 0 Volts = Off

Specifications subject to change without notice.