

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 +50 dBm. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.

Features

- Single DC Supply of +12 V
- Over Voltage Protection
- Thermal Protection with Auto Reset

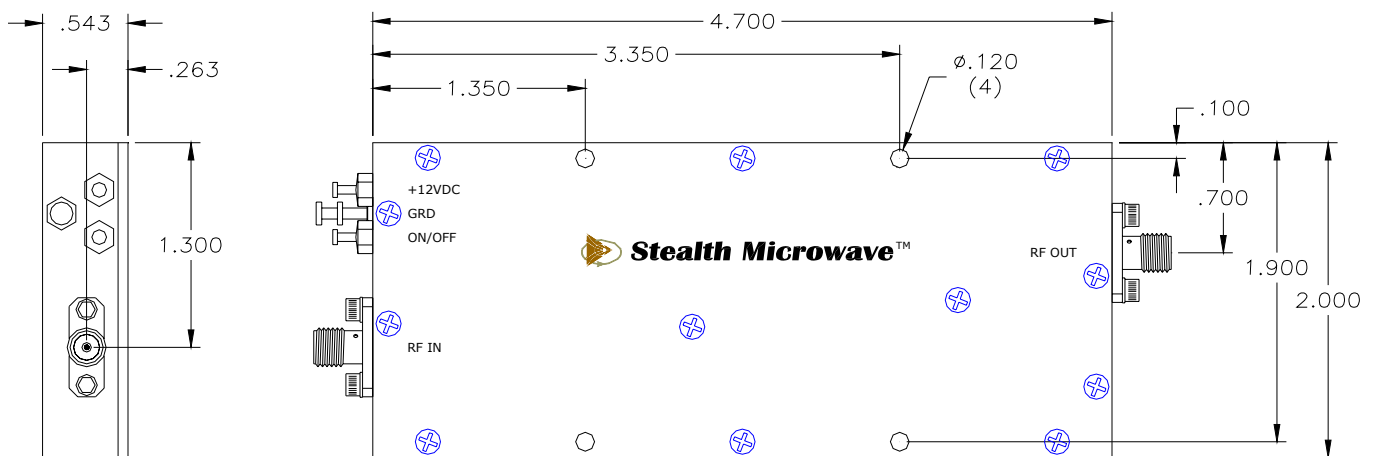
Options

- TTL Logic On/Off Control
- Heatsink



Parameter	Specification
Frequency Range	5.7 – 5.9 GHz
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 0.5 dB
Input/Output VSWR	1.4:1
DC Input Voltage	+12 Volts
DC Input Current	2.3 Amps
Mechanical Dimensions	4.7 x 2.0 x 0.54 inches
RF Connectors	Female SMA
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

SM5759-37HS DIMENSIONS (inches)



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

Specifications subject to change without notice.