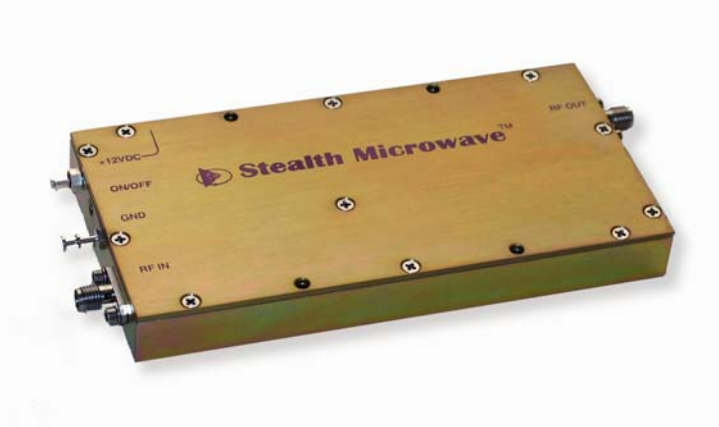
Stealth Microwave
INCORPORATED

SM2527-37H

2500-2700 MHz
5 Watt Linear Power Amplifier
FOR MMDS APPLICATIONS

The **SM2527-37H** is a solid state GaAs amplifier designed for Multichannel Multipoint Distribution System (MMDS) market. This unit operates over a frequency range of 2500-2700 MHz, provides 34 dB of gain with a gain flatness of ± .25 dB, has a 1 dB compression point of +37 dBm, and an output third order intercept point of +51 dBm. The amplifier runs off a single supply voltage of +12 V. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a minimal size.



Features

- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

Options

- Forward Power Detection
- Harmonic Filter
- Heatsink
- Logic On/Off Control

Parameter	Specification
Frequency Range	2.5 – 2.7 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 51 dBm
Linear Gain	34 dB ± 1.0 dB
Gain Flatness over Full Band	± .25 dB
Input/Output Return Loss	-14 dB / -16 dB
DC Supply Voltage	+ 12 Volts
DC Supply Current	1.9 Amps (max.), 1.6 Amps (typ.)
Mechanical Dimensions	5.0 x 2.5 x 0.6 inches
RF Connectors	SMA Female
Operating Temperature	0ºC to +55ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

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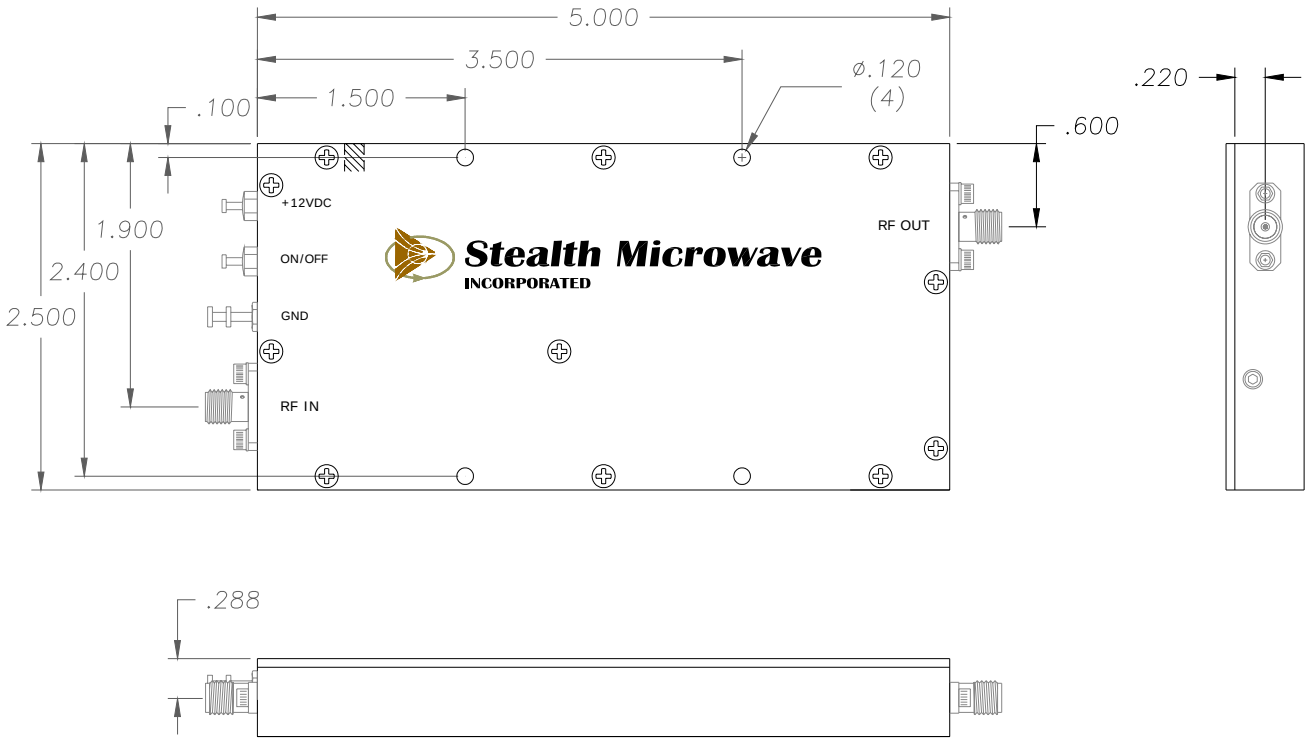
DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	+3 dBm typ.
RF Output	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 1.6 Amps (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

Specifications subject to change without notice.

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