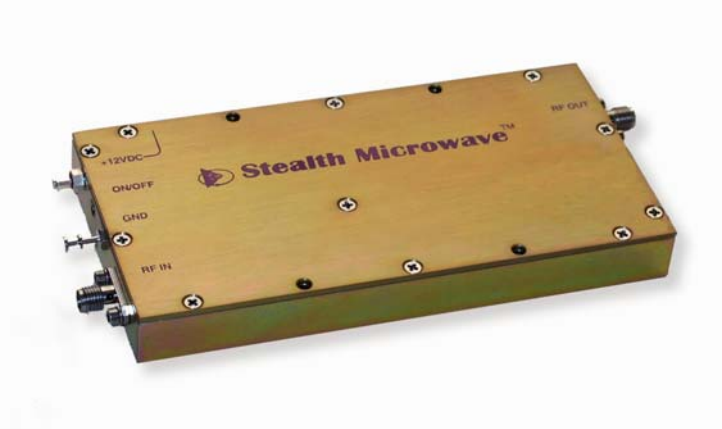
Stealth Microwave
INCORPORATED

Model SM08096-37

800-960 MHz
5 Watt Linear Power Amplifier
FOR GSM APPLICATIONS

The **SM08096-37** is a solid state GaAs amplifier designed for the Cellular/GSM telephony market. The unit operates from 800-860 MHz, the output power at the 1 dB compression point is +37 dBm, The output third order intercept point is +51 dBm, and the linear gain is 45 dB. The single carrier CDMA output power is +32 dBm. The DC supply voltage is +12 V, and the unit typically draws 1.6 Amps. The latest surface mount technologies have been used in the design of this amplifier to provide numerous features, while maintaining a minimal size.



Features:

- Mis-Match Protected
- Single DC Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

Options

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

Configurations

- Module
- 19” Rack

Parameter	Specification
Frequency Range	800 – 960 MHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 51 dBm
Linear Gain	45 dB ± 1.0 dB
Gain Flatness over Full Band	± .5 dB
Input/Output Return Loss	-14 dB / -16 dB
DC Input Voltage	+ 12 Volts
DC Input Current	1.9 Amperes (max.), 1.6 Amperes (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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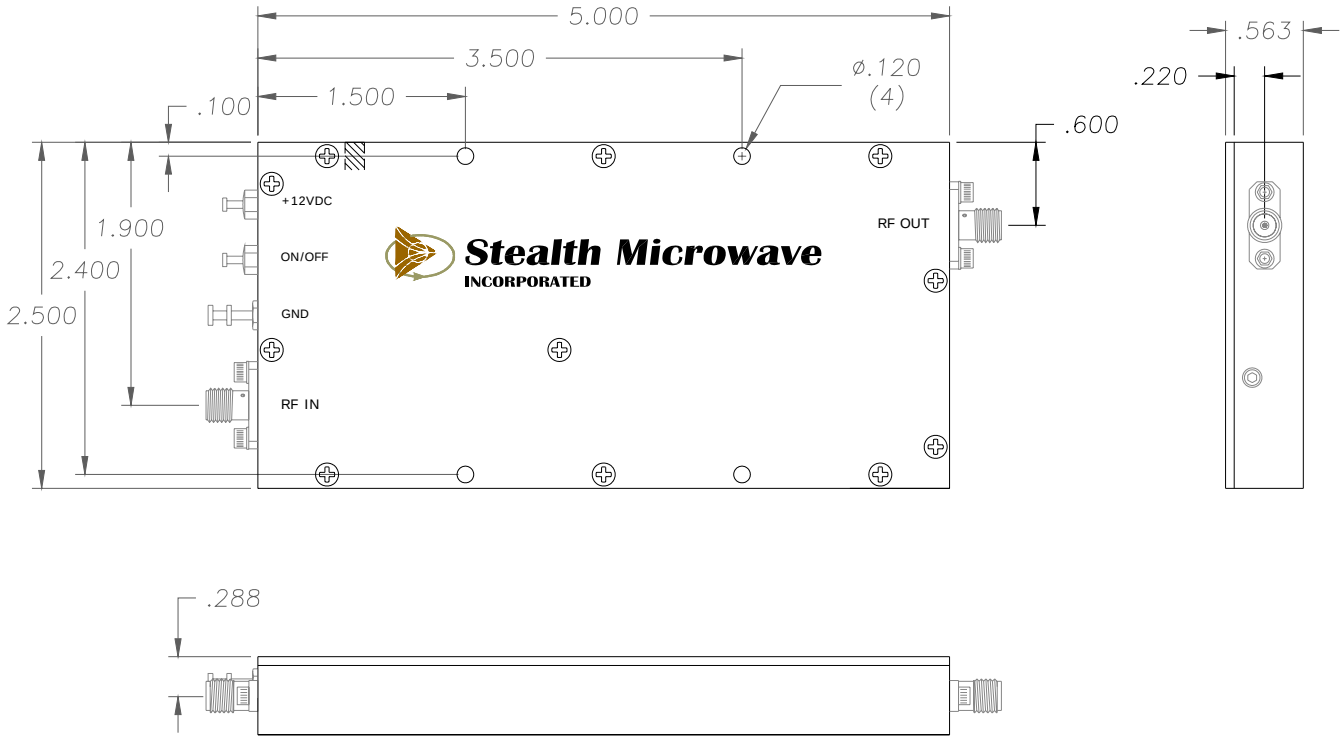
DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	-8 dBm typ.
RF Output	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 1.6 Amperes (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On
FWD	Forward Power Detector	+ 3.0 Volts @ 30 dBm

Specifications subject to change without notice.

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