

Model **SM0825-36/36H** is an 800 to 2500 MHz solid state GaAs amplifier designed for multi-purpose use in the wireless markets. **With 1.7 GHz of bandwidth**, this small amplifier can be used in AMPS, GSM, DCS1800, ISM, WLL, PCS, UMTS, and IMT200 applications. This module provides +36 dBm of output power at P1dB, and OIP3 of +48 dBm. Two versions are available, the -36, with 20 dB of linear gain, and the -36H, with 35 dB of linear gain. The gain flatness over the full band is ± 0.75 dB. It comes standard in modular form with four (4) thru-holes for mounting.

Features

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

Options

- Logic On/Off Control
- High Temp Turn Off
- 13 Reverse
- Integral Heatsink

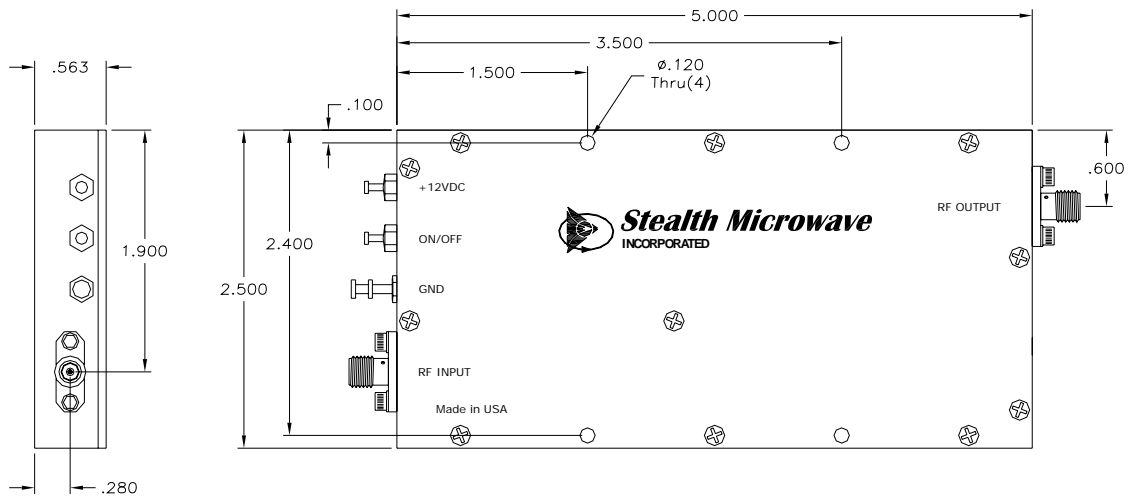
Configurations

- Module
- Laboratory Unit
- 19" Rack

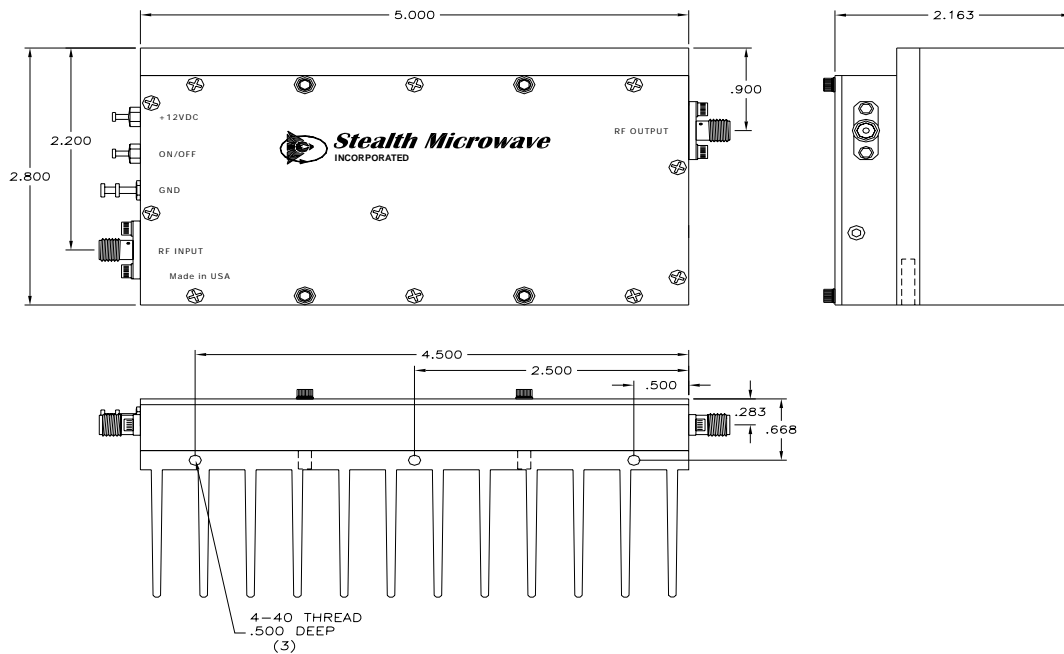


Parameter	Specification
Frequency Range	800 – 2500 MHz
Pout (P1dB)	+ 36 dBm (min.)
Third Order Intercept Point	+ 48 dBm (min.)
Linear Gain	35 dB \pm 1.0 dB
Gain Flatness over Full Band	$\pm .75$ dB
Input/Output Return Loss	-11 dB / -14 dB
DC Input Voltage	+ 12 Volts
DC Input Current	1.9 Amperes (typ.)
Mechanical Dimensions (Without Heatsink)	5.0 x 2.5 x .6 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +55°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 Input	Input Connector (SMA Female)	+ 4 dBm (max. for SM0825-36H) +19 dBm (max for SM0825-36)
RF Output	Output Connector (SMA Female)	+ 36 dBm (min @ P1dB)
GND	Ground Turret	---
+12VDC	DC Input Voltage	+ 12 Volts @ 1.9 Amperes
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On