

Model **SM0520-36/36H** is a 500 to 2000 MHz solid state GaAs FET amplifier designed for multi-purpose use in multiple wireless and military markets. With **1.5 GHz of bandwidth**, this small amplifier can be used in Cellular, DCS1800, GSM, FMS, and PCS applications. This module provides a minimum of +36 dBm of output power at P1dB with an OIP3 of +48 dBm. Two versions are available, the **-36**, with 20 dB of linear gain, and the **-36H**, with 33 dB of linear gain. The gain flatness over the entire 1.5 GHz bandwidth is ± 0.5 dB. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a minimal size.

Features

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

Options

- Logic On/Off Control
- Heatsink
- Voltage Regulation (+11 to +14.5 VDC input range)

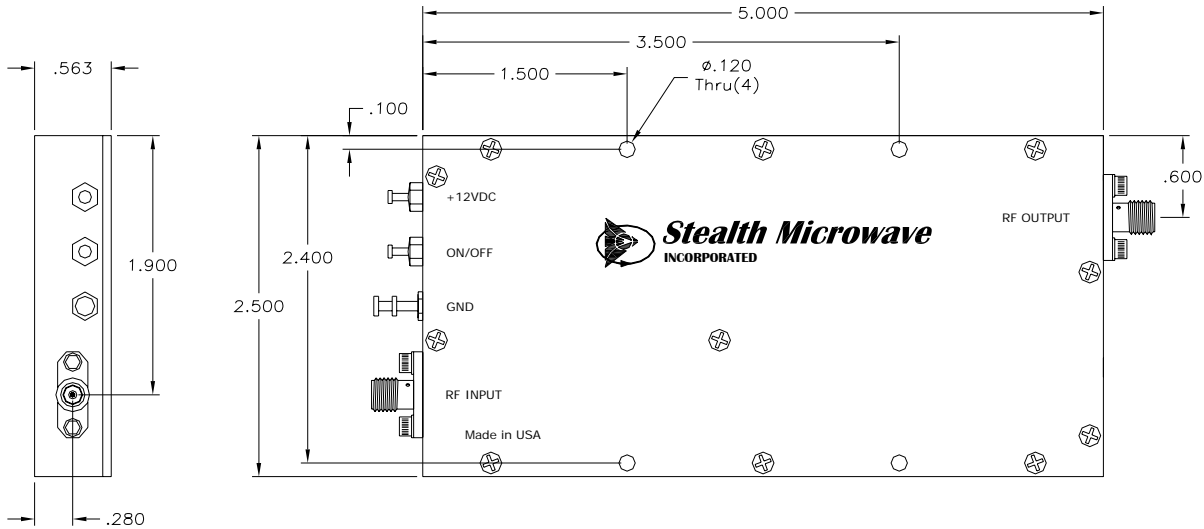
Configurations

- Module
- Bench-Top-Lab Unit
- 19" Rack

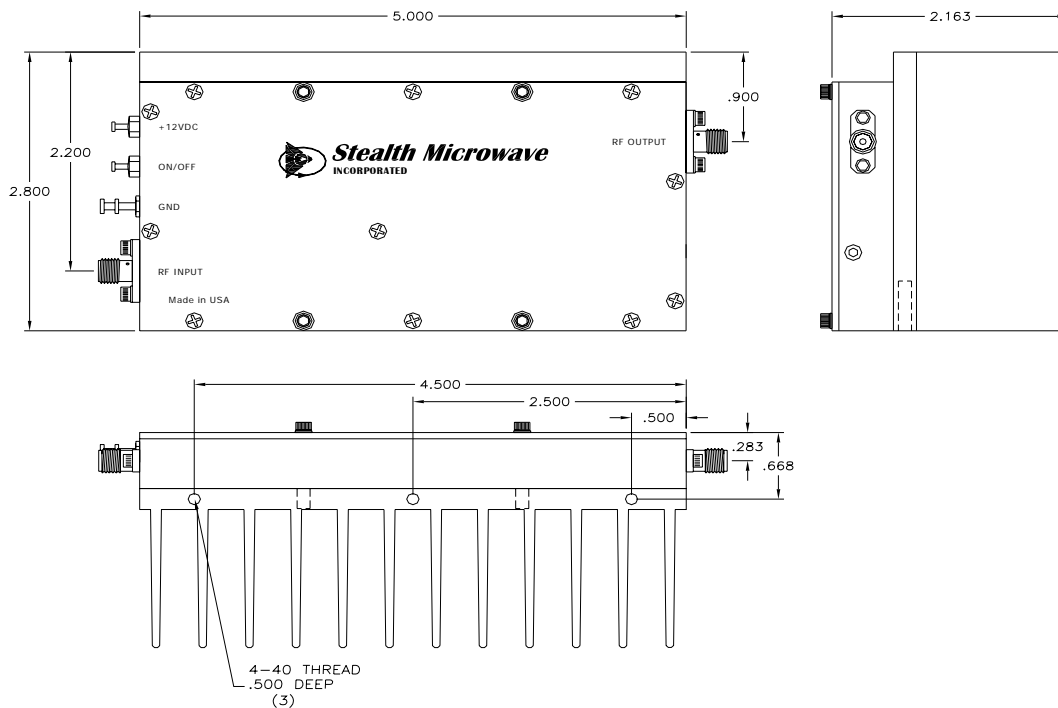


Item	SM0520-36	SM0520-36H
Frequency Range	500 - 2000 MHz	500-2000 MHz
Pout (P1dB)	+ 36 dBm	+ 36 dBm
Third Order Intercept Point	+ 48 dBm	+ 48 dBm
Linear Gain	20 dB \pm 1.0 dB	35 dB \pm 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB	$\pm .5$ dB
Input/Output Return Loss	-7 dB / -14 dB	-14 dB / -14 dB
DC Input Voltage	+ 12 Volts	+12 Volts
DC Input Current	1.9 Amperes	1.9 Amperes
Mechanical Dimensions (Without Heatsink)	5.0 x 2.5 x .563 in.	5.0 x 2.5 x .563 in
RF Connectors	SMA Female	SMA Female
Operating Temperature (Baseplate)	0°C to +55°C	0°C to +55°C
Operating Humidity	95% Non-condensing	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level	Up to 10,000 feet above Sea Level

DIMENSIONS IN INCHES



DIMENSIONS WITH HEATSINK





Model SM0520-36/36H

500-2000 MHz

4 Watt Linear Power Amplifier

FOR LAB & WIDEBAND APPLICATIONS

Pin	Description	Values
RF Input	Input Connector (SMA Female)	+18 dBm typ. for -36 , +3 dBm typ. for -36H
RF Output	Output Connector (SMA Female)	+ 36 dBm @ 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

Specifications subject to change without notice.