

Model SM0520-36/36H

500-2000 MHz 4 Watt Linear Power Amplifier FOR LAB & WIDEBAND APPLICATIONS

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

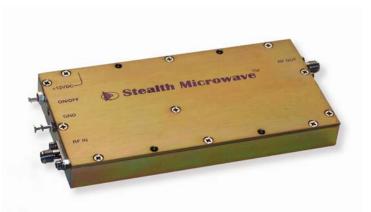
- Mis-Match Protected
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

Options

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

Configurations

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



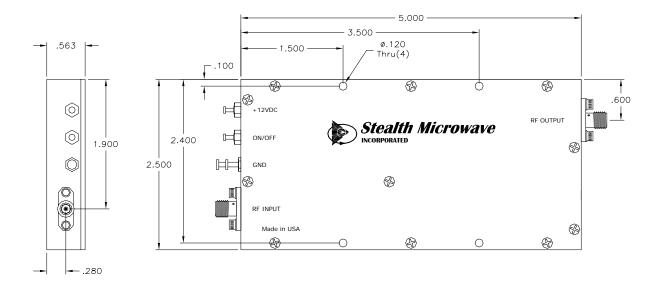
Item	SM0520-36	SM0520-36H
Frequency Range	500 - 2000 MHz	500-2000 MHz
Pout (P1dB)	+ 36 dBm	+ 36 dBm
Third Order Intercept Point	+ 48 dBm	+ 48 dBm
Linear Gain	$20~\text{dB} \pm 1.0~\text{dB}$	$35 \text{ dB} \pm 1.0 \text{ dB}$
Gain Flatness over Full Band	± .5 dB	± .5 dB
Input/Output Return Loss	-7 dB / -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



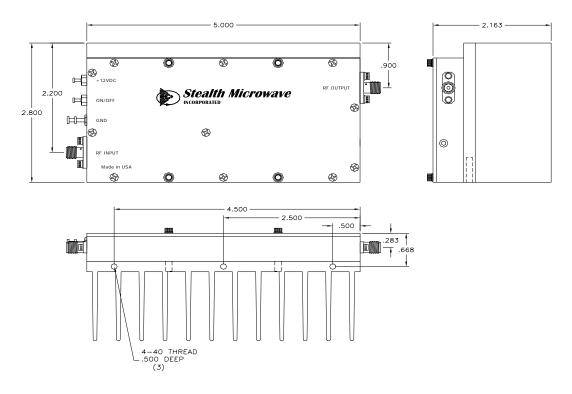
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DIMENSIONS IN INCHES



DIMENSIONS WITH HEATSINK





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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.