

Model SM04522-36/36H

450-2200 MHz 4 Watt Linear Power Amplifier FOR LAB & WIDEBAND APPLICATIONS

Models **SM04522-36/36H** are 450 to 2200 MHz solid state GaAs FET amplifiers designed for multi-purpose use. With **1.75 GHz of bandwidth**, this small amplifier can be used in various applications. This module provides a minimum of +34 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 35 dB of linear gain. The gain flatness over the entire 1.75 GHz bandwidth is \pm 0.75 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
- Cooling Fan

Configurations

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



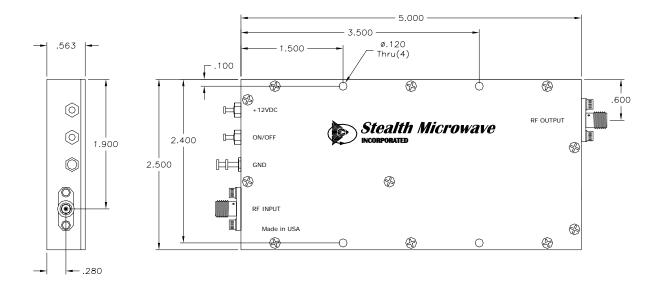
Item	SM04522-36	SM04522-36H
Frequency Range	450 - 2200 MHz	450-2200 MHz
Pout (P1dB)	+ 34 dBm (min) + 36 dBm (typ)	+ 34 dBm (min) + 36 dBm (typ)
Third Order Intercept Point	+ 48 dBm	+ 48 dBm
Linear Gain	$20 \text{ dB} \pm 1.0 \text{ dB}$	$35 \text{ dB} \pm 1.0 \text{ dB}$
Gain Flatness over Full Band	± .75 dB	± .75 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



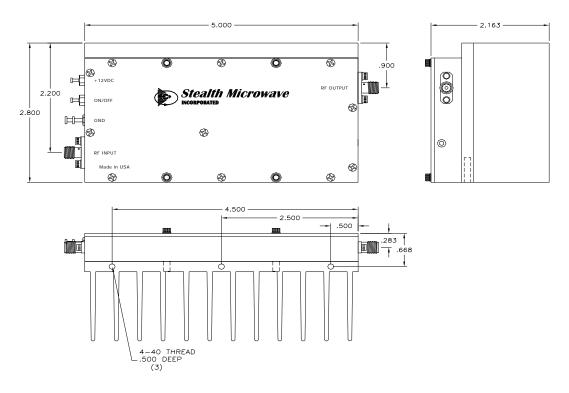
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DIMENSIONS IN INCHES



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.