

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 dB $\pm$ 1.0 dB	35 dB $\pm$ 1.0 dB
Gain Flatness over Full Band	$\pm .75$ dB	$\pm .75$ 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





## Model SM04522-36/36H

450-2200 MHz

4 Watt Linear Power Amplifier

FOR LAB & WIDEBAND APPLICATIONS

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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.*

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