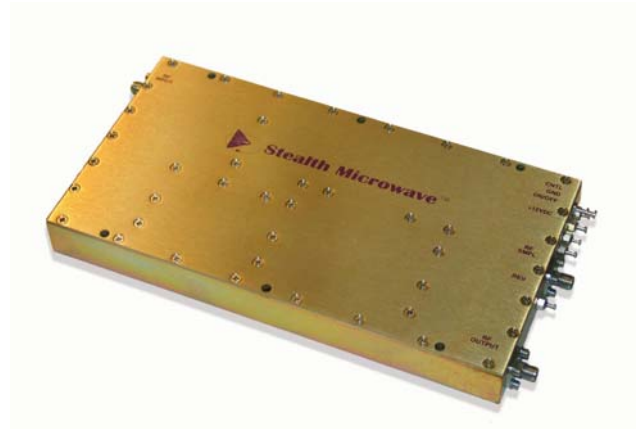


The **SM2122-44L** is a solid state GaAs amplifier designed for the UMTS market. This unit operates from 2.1 to 2.2 GHz, provides 55 dB of gain with a ± 0.5 dB flatness, and has a P1dB of +44 dBm. Stealth Microwave's proprietary linearization technique provides an OIP3 of +63 dBm. The compact size and ultra high linearity make this amplifier ideally suited for systems using CDMA, TDMA, single-carrier or multi-carrier applications.



Features

- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation

Options

- Forward/Reverse Power Detection
- RF Sampling
- Fan
- Pulse Control with switching speeds up to 100 kHz
- Logic On/Off Control
- Integral Heatsink

Configurations

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

Parameter	Specification
Frequency Range	2.1 – 2.2 GHz
Pout (P1dB)	+ 44 dBm
Third Order Intercept Point	+ 63 dBm
Linear Gain	55 dB \pm 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16 dB
DC Input Voltage	+ 12 Volts
DC Input Current	8.2 Amps. (operational)
Mechanical Dimensions (Without Heatsink)	7.5 x 4.0 x 0.8 Inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +55°C
Operating Humidity	95% Non-condensing

Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	-9 dBm typical
RF OUTPUT	Output Connector (SMA Female)	+44dBm @P1dB
RF SAMPLE	Sample RF Port (SMA Female)	30 dBr
GND	Ground Turret	---
FWD	Forward Power Detector	+ 44 dBm Output Power \approx + 4.0 Volts
REV	Reverse Power Detector	∞ VSWR @ + 44 dBm \approx + 4.0 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 8.2 Amps (operational)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On
CNTL	TTL Pulse Control	Rates up to 100 kHz

Specifications subject to change without notice.