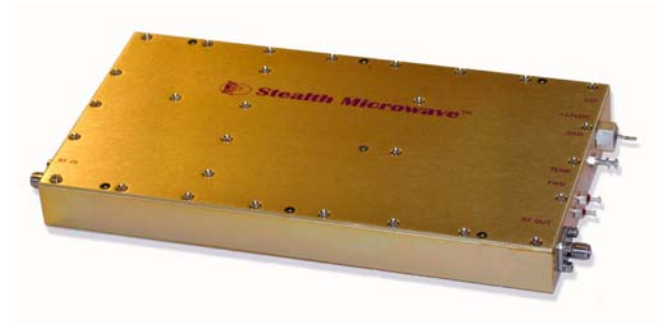


The **SM09296-47L** is a 925-960 MHz solid state GaAs amplifier designed for the Cellular/GSM telephony market. Its compact size and ultra high linearity make it ideally suited for systems using CDMA, TDMA, or any high dynamic range multi-carrier applications. The P1dB is +47 dBm, the linear gain is 58 dB, and the gain change over temperature is  $\pm 0.5$  dB, Stealth Microwave's proprietary pre-distortion technique allows for an OIP3 of +66 dBm. The unit comes standard in modular form or as a rack mountable amplifier.



### Features

- Mis-Match Protected
- Built in linearizer increasing the OIP3 by over 7 dB
- Temperature Compensation
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

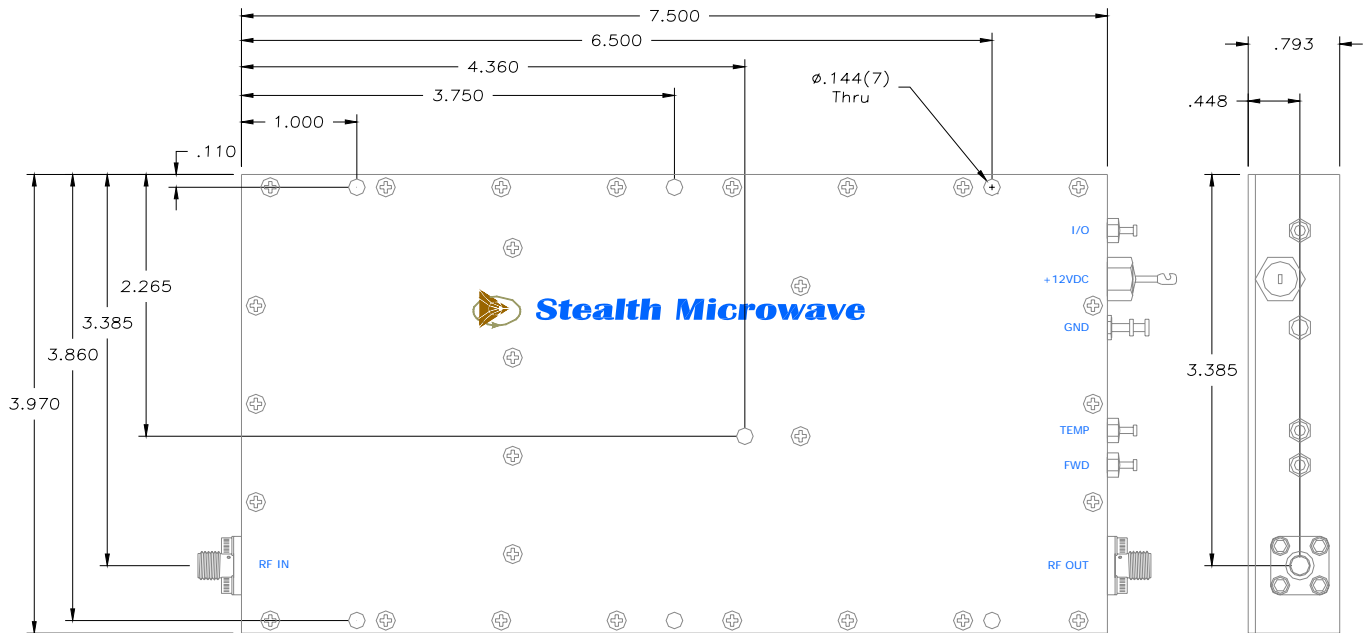
### Options

- Logic On/Off Control
- Forward Power Detection
- Harmonic Filter
- Integral Heatsink

### Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	925 – 960 MHz
Pout (P1dB)	+ 47 dBm
Third Order Intercept Point	+ 66 dBm
Linear Gain	58 dB $\pm$ 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-14 dB / -14 dB
DC Supply	+ 12 Volts @ 17 Amperes
Mechanical Dimensions Without Heatsink	7.5 x 4.0 x 0.8 inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

**DIMENSIONS IN INCHES**


Pin	Description	Values
RF Input	Input Connector (SMA Female)	- 11 dBm, typical
RF Output	Output Connector (SMA Female)	+ 47 dBm (P1 dB)
GND	Ground Turret	---
FWD	Forward Power Detector	+ 43 dBm Output Power $\approx$ + 4.5 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 17 Amperes
I/O	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

*Specifications subject to change without notice.*