

The **SM08790-47L** is a solid state GaAs amplifier designed for the Broadband Wireless Access market. This unit operates from 870-900 MHz, provides 55 dB of gain with  $\pm 0.5$  dB of flatness, and has a P1dB of +47 dBm. Stealth Microwave's proprietary linearization technique provides a much greater OIP3 compared to conventional amplifiers. Its compact size and ultra high linearity make this amplifier ideally suited for TD-CDMA and WiMAX applications.



### Features

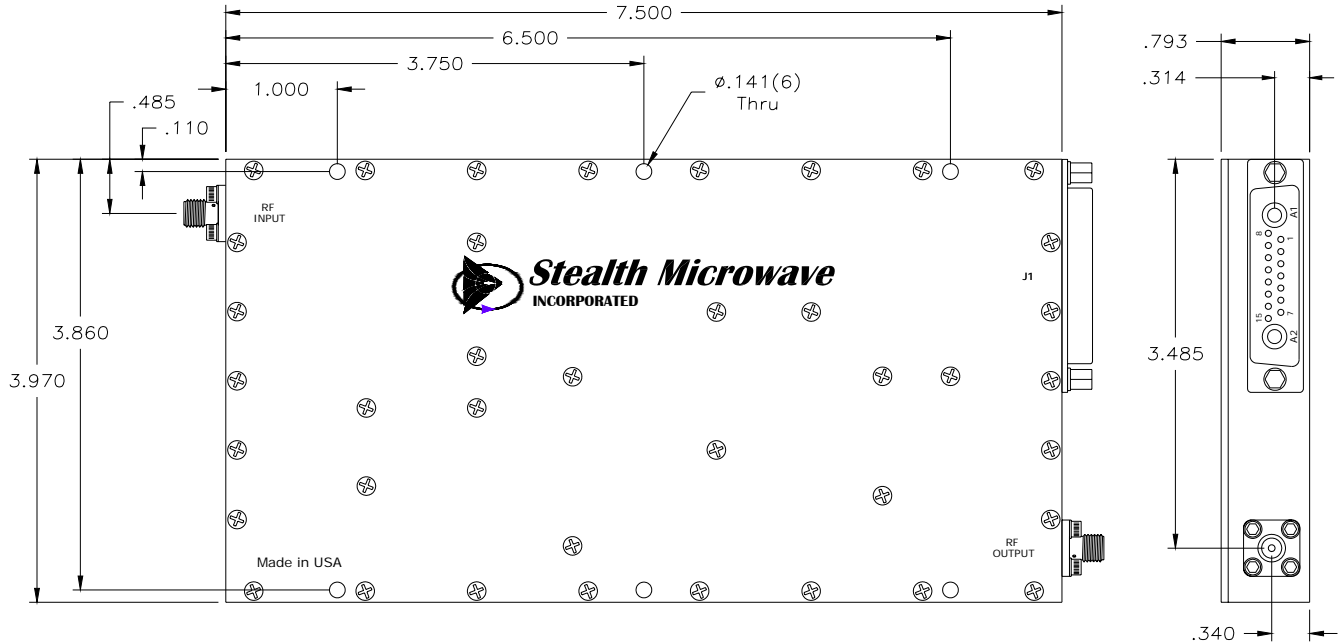
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation

### Options

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

Parameter	Specification
Frequency Range	870 - 900 MHz
Pout (P1dB)	+ 47 dBm
Third Order Intercept Point	+ 66 dBm
Linear Gain	55 dB $\pm$ 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -18 dB
DC Input Voltage	+ 12 Volts
DC Input Current	15 Amps. (operational)
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	Up to 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 )	-8 dBm typical
RF OUTPUT	Output Connector (SMA Female)	+47dBm @P1dB
J1	17W2 D-Sub Connector	Power, Monitoring, and Control Connections

*Specifications subject to change without notice.*