Stealth Microwave
INCORPORATED

Model SM08010-44L

800-1000MHz
25 Watt Linear Power Amplifier
FOR BWA APPLICATIONS

The **SM08010-44L** is a solid state GaAs amplifier designed for the Broadband Wireless Access market. This unit operates from 800-1000 MHz, provides 55 dB of gain with ± 0.5 dB of flatness, and has a P1dB of +44 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 Power Detection
- RF Sampling
- Fan
- Pulse Control with switching speeds up to 1 us rise/fall
- Logic On/Off Control
- Integral Heatsink

Configurations

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

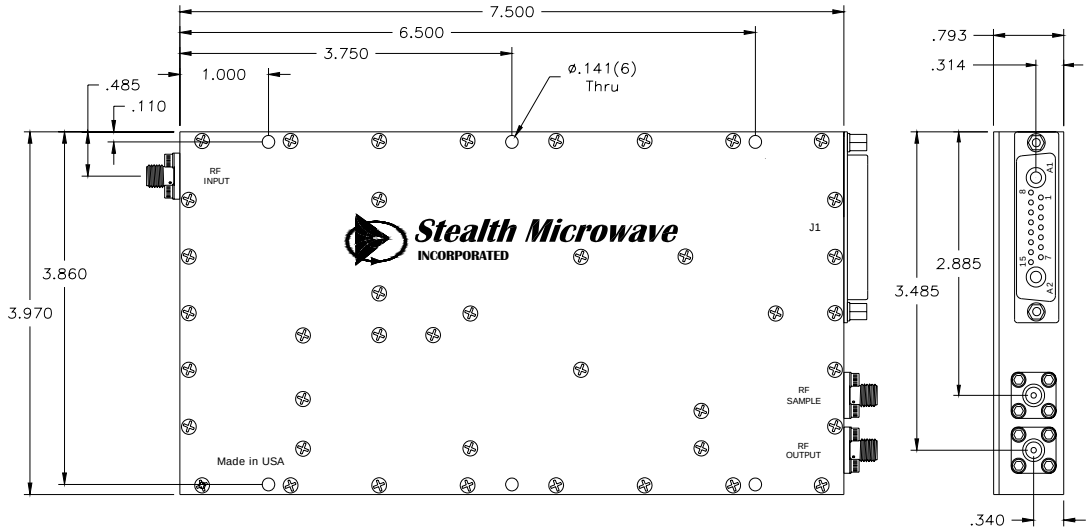
Parameter	Specification
Frequency Range	800 - 1000 MHz
Pout (P1dB)	+ 44 dBm
Third Order Intercept Point	+ 58 dBm
Linear Gain	55 dB ± 1 dB
Gain Flatness over Full Band	± .5 dB
Input/Output Return Loss	-16 dB / -18 dB
DC Input Voltage	+ 12 Volts
DC Input Current	7 Amps. (operational)
Mechanical Dimensions Without Heatsink	7.5 x 4.0 x 0.8 Inches
RF Connectors	SMA Female
Operating Temperature	0ºC to +55ºC
Operating Humidity	Up to 95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

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DIMENSIONS IN INCHES



Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	-6 dBm typical
RF OUTPUT	Output Connector (SMA Female)	+44dBm @P1dB
J1	17W2 D-Sub Connector	Power, Monitoring, and Control Connections

Specifications subject to change without notice.

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