Stealth Microwave
INCORPORATED

Model SM2560-47GN

2500 - 6000 MHz
50 Watt Power Amplifier
FOR MILITARY APPLICATIONS

PRELIMINARY

The **SM2560-47GN** is a 2.5 to 6.0 GHz solid state GaN amplifier designed for various commercial and military applications. The amplifier provides 45 dB of linear gain with a typical Psat of +47 dBm. It is available in modular form (standard), as a lab unit or in 19" rack mountable form.

Features

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

Options

- RF Sampling Port
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- Laboratory Unit
- 19" Rack Mount

Parameter	Specification
Frequency Range	2.5 – 6.0 GHz
Pout (Psat)	+47 dBm (typ.)
Gain	45 dB ± 2 dB
Gain Flatness (over full band)	± 3 dB
Gain Change (over temperature)	± 1 dB
Input/Output Return Loss	2:1 max., 1.5:1 typ.
DC Input Voltage	+28 Volts
DC Input Current	7 Amperes (operational)
Mechanical Dimensions	7.50 x 3.97 x .79 inches H=3.3 inches with heatsink
RF Connectors	SMA Female
Operating Temperature	-40ºC to +85ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

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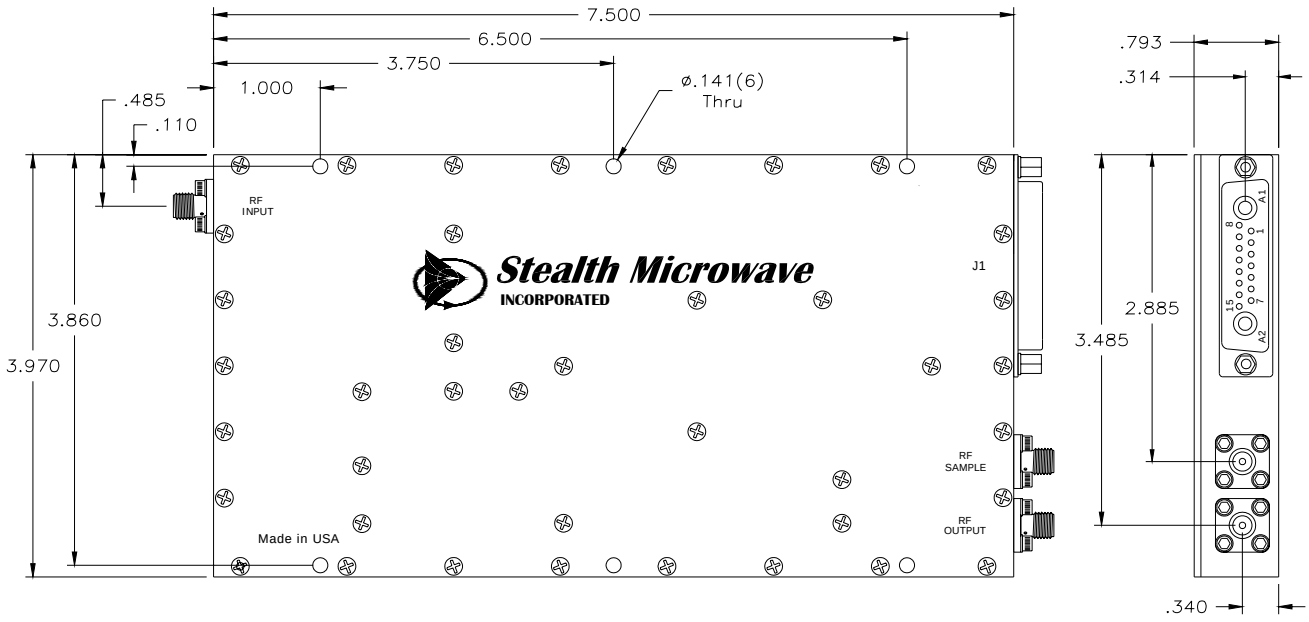
DIMENSIONS IN INCHES



Connector	Description	Values
RF INPUT	Input Connector (SMA Female)	+2 dBm (typ.)
RF OUTPUT	Output Connector (SMA Female)	+ 47 dBm @ Psat
J1	DC Input Voltage	+ 28 Volts @ 7 Amperes. (operational)

J1 17W2 CONNECTOR

Pin Out	Description
A1	+28 VDC
A2	DC Ground
1	0 Volts = Off, + 5 Volts = On
2-15	GND

Specifications subject to change without notice.

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