

## 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

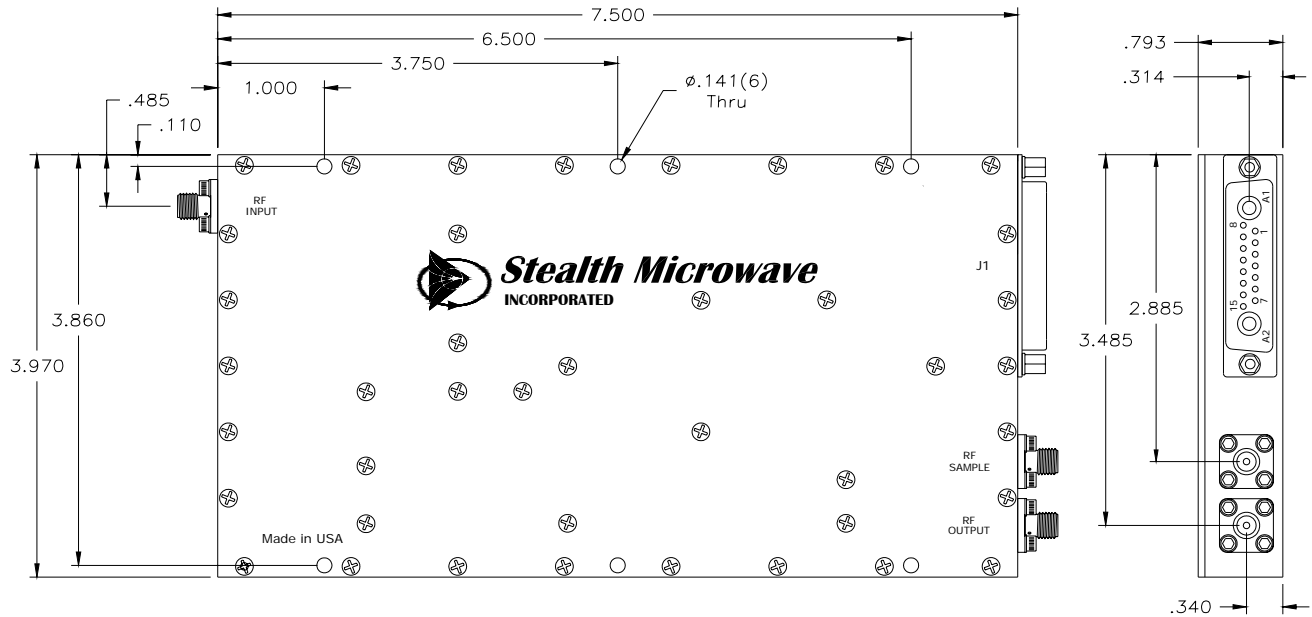
- Module
- Laboratory Unit
- 19" Rack Mount



Parameter	Specification
Frequency Range	2.5 – 6.0 GHz
Pout (Psat)	+47 dBm (typ.)
Gain	45 dB $\pm$ 2 dB
Gain Flatness (over full band)	$\pm$ 3 dB
Gain Change (over temperature)	$\pm$ 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	-40°C to +85°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

**PRELIMINARY**

**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.*