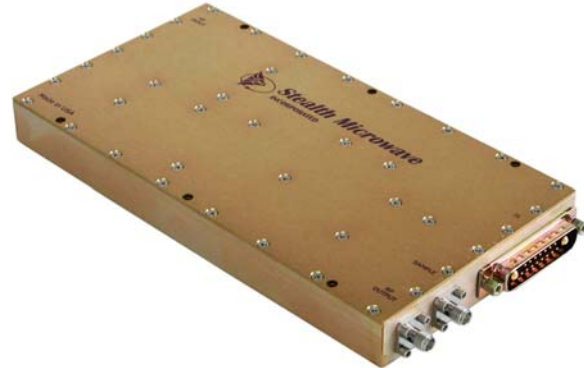


The **SM2325-47L** is a solid state GaAs amplifier designed for the ISM, Fixed Wireless, and Wireless Local Loop markets. The amplifier operates from 2.3 to 2.5 GHz, provides 55 dB of linear gain, and the output power at P1dB is 50 watts. By using the latest surface mount technologies, this small amplifier can easily fit into tightly packed transmitters and repeaters.



### Features

- Mis-Match Protected
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

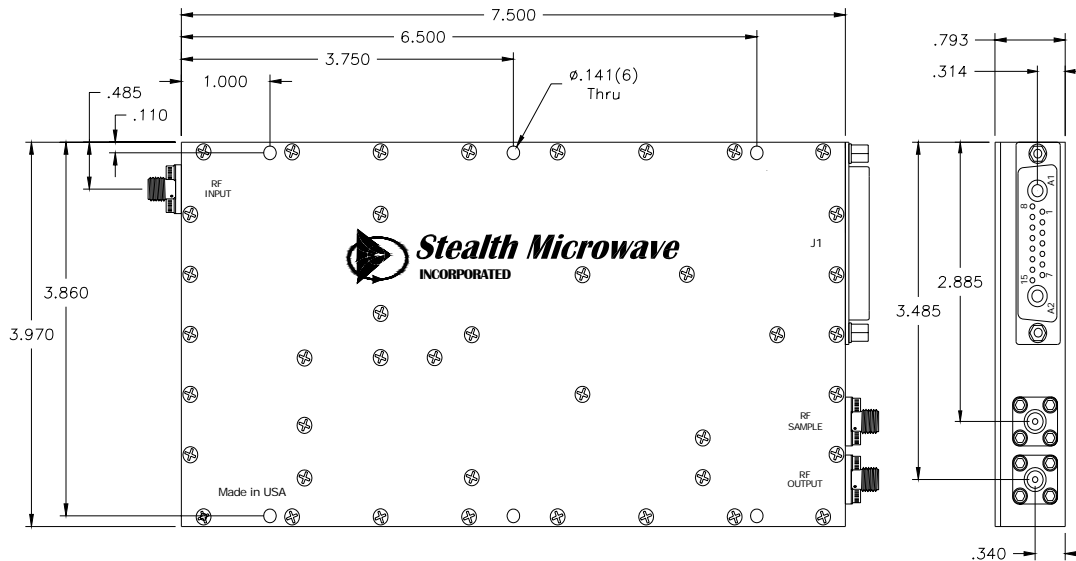
### Options

- Forward/Reverse Power Detection
- RF Sampling
- Fan
- Pulse Control for TDD applications with <math><1\mu\text{s}</math> rise/fall time
- Logic On/Off Control
- Integral Heatsink

### Configurations

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

Parameter	Specification
Frequency Range	2.3 - 2.5 GHz
Pout (P1dB)	+ 47 dBm (typ.)
Third Order Intercept Point	+ 63 dBm
Linear Gain	55 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 /-18 dB
DC Input Voltage	+ 12 Volts
DC Input Current	18 Amperes (Varies per application)
Mechanical Dimensions (Without Heatsink)	7.5 x 4.0 x .8 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

**DIMENSIONS IN INCHES**


PIN	FNCT.	COLOR
1	CNTL. (HS)	ORANGE
2	TTL (On/Off)	
3	ADDRESS A1	
4	SCL	WHITE
5	SDA	PURPLE
6	REV. DET.	YELLOW
7	FWD. DET.	GREEN
8-15	GND.	BLACK

PIN	FNCT.	COLOR
A1	+12V	PURPLE
A2	GND.	BLACK

Pin	Description	Values
RF Input	Input Connector (SMA Female)	- 6 dBm, typical
RF OUT	Output Connector (SMA Female)	+47 dBm @P1dB
RF SAMPLE	Sample RF Port (SMA Female)	30 dB
GND	Ground Turret	---
REV	Reverse Power Detector	$\infty$ VSWR @ + 38 dBm $\approx$ + 1.0 Volts
FWD	Forward Power Detector	+ 38 dBm Output Power $\approx$ + 2.5 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 18 Amperes (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

Specifications subject to change without notice.