

Model SM2325-47L

2300-2500 MHz 50 Watt Linear Power Amplifier FOR ISM, WCS, & WLL APPLICATIONS

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 <1µs rise/fall time
- Logic On/Off Control
- Integral Heatsink

Configurations

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

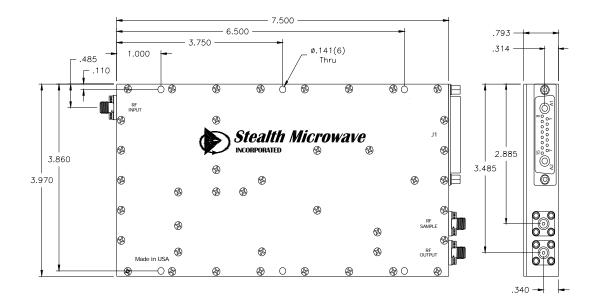
Parameter	Specification		
Frequency Range	2.3 - 2.5 GHz		
Pout (P1dB)	+ 47 dBm (typ.)		
Third Order Intercept Point	+ 63 dBm		
Linear Gain	55 dB ± 1 dB		
Gain Flatness over Full Band	± .5 dB		
Gain Change over Temperature	± .5 dB		
Input/Output Return Loss	-14 dB /-18 dB		
DC Input Voltage	+ 12 Volts		
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		



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DIMENSIONS IN INCHES



PIN	FNCT.	COLOR	PIN	FNCT.	COLOR
1	CNTL. (HS)	ORANGE			
2	TTL (On/Off)		A1	+12V	PURPLE
3	ADDRESS A1		A2	GND.	BLACK
4	SCL	WHITE			
5	SDA	PURPLE			
6	REV. DET.	YELLOW			
7	FWD. DET.	GREEN			
8-15	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 dBr
GND	Ground Turret	
REV	Reverse Power Detector	∞ 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.