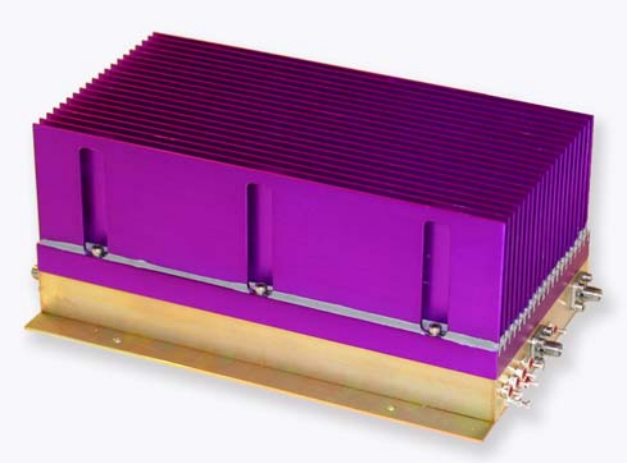
Stealth Microwave
INCORPORATED

Model SM2325-41L

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

The **SM2325-41L** is a solid state GaAs amplifier designed for Industrial Scientific Medical (ISM), Wireless Communications Systems (WCS), and Wireless Local Loop (WLL) applications. The amplifier operates over a frequency band of 2300-2500 MHz, and provides 55 dB of Linear gain with a P1dB of +41 dBm. It uses the latest FET technology and offers ultra linear performance for rigorous system requirements. The unit is available in modular form or as a rack mountable amplifier.



Features

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

Options

- Forward/Reverse Power Detection
- RF Sampling
- Pulse Control up to 10µs
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	2.3 - 2.5 GHz
Pout (P1dB)	+ 41 dBm
Third Order Intercept Point	+ 60 dBm
Linear Gain	55 dB ± 2 dB
Gain Flatness over Full Band	± .5 dB
Gain Change over Temperature	± .5 dB
Input/Output Return Loss	-16/-18 dB
DC Input Voltage	+ 12 Volts
DC Input Current	5.0 Amperes (Varies per application)
Mechanical Dimensions (With Heatsink)	7.5 x 5.0 x 2.0 inches
RF Connectors	SMA Female
Operating Temperature	0ºC to +55ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

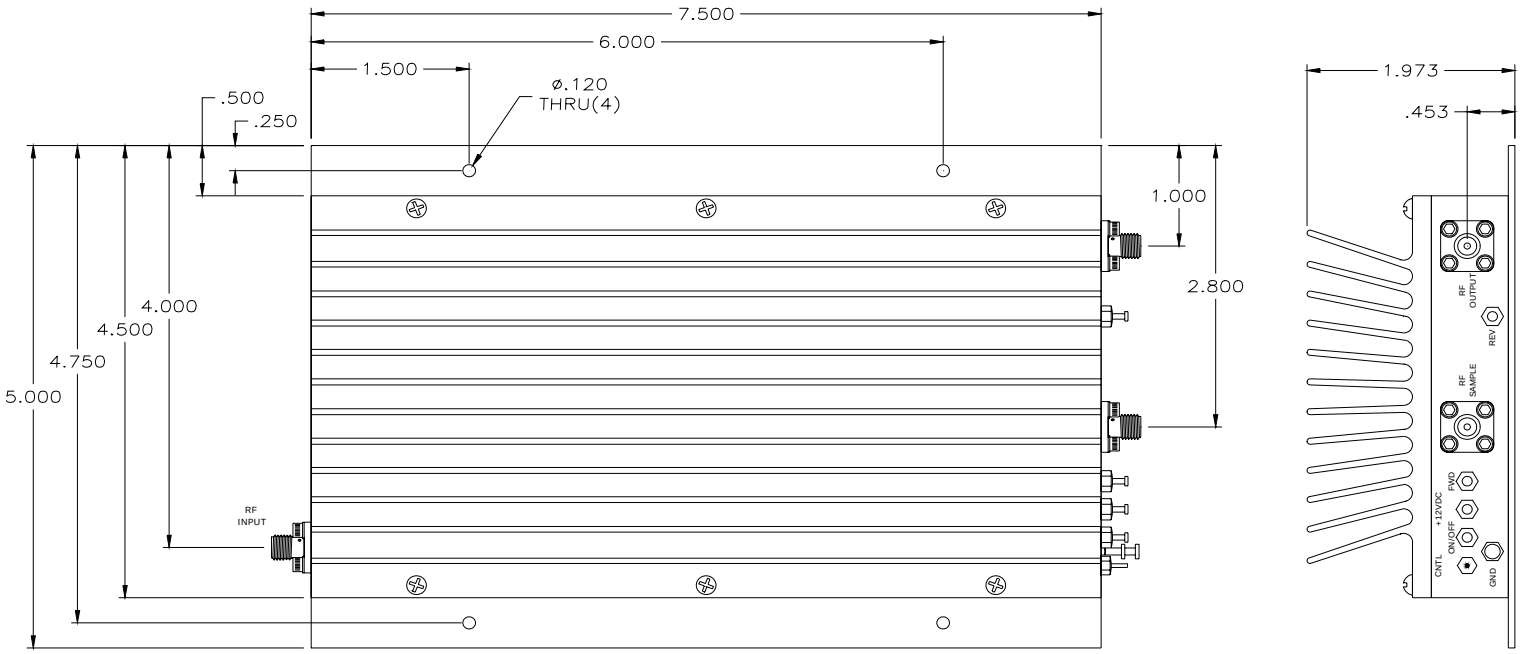
1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

Stealth Microwave
INCORPORATED

Model SM2325-41L

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

DIMENSIONS IN INCHES



Pin	Description	Values
RF INPUT	Input Connector (Female SMA)	- 12 dBm, typical
RF OUTPUT	Output Connector (Female SMA)	+41dBm @ P1dB
RF SAMPLE	Sample RF Port (Female SMA)	30 dBr
GND	Ground Turret	---
FWD	Forward Power Detector	+ 41 dBm Output Power ≈ + 4 Volts
REV	Reverse Power Detector	∞ VSWR @ + 41 dBm ≈ + 4 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 4.3 Amperes (typ.)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On
CNTL	TTL Pulse Control	Switching Speed up to 100 kHz

Specifications subject to change without notice.

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