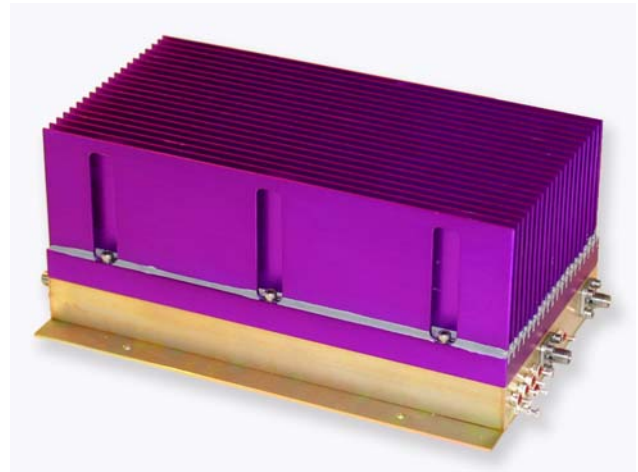


The **SM2325-41** is a solid state GaAs FET amplifier designed for Industrial Scientific Medical (ISM), Wireless Communications Systems (WCS), and Wireless Local Loop (WLL) applications. The operating frequency is 2300-2500 MHz, the linear gain is +55 dB, and the output power at P1dB is +41 dBm. By using the latest surface mount technologies, this small amplifier can easily fit into tightly packed transmitters and repeaters. The unit is available in modular form (standard), or as a rack mountable amplifier.



Features

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

Options

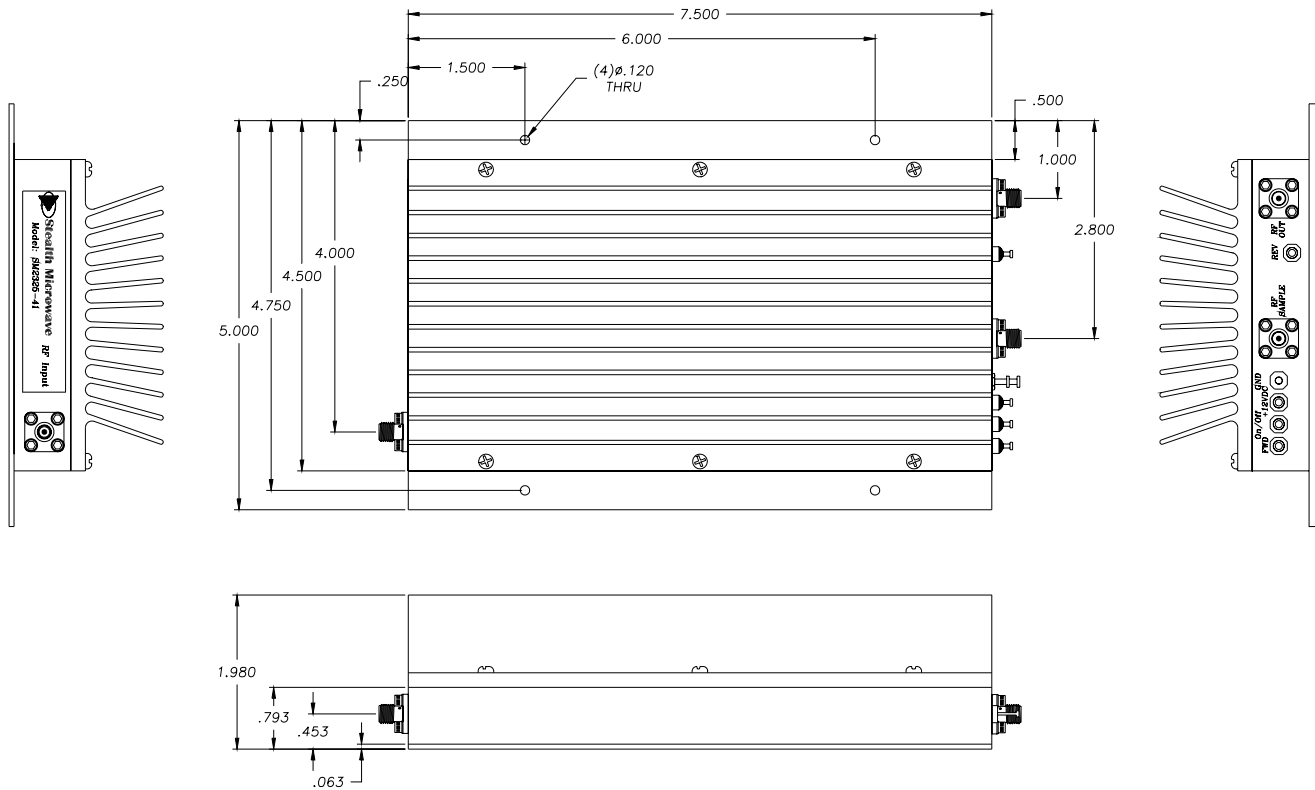
- Forward/Reverse Power Detection
- RF Sampling
- Level Control
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	2.3 - 2.5 GHz
Pout (P1dB)	+ 41 dBm
Third Order Intercept Point	+ 52 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	-16/ -18 dB
DC Input Voltage	+ 12 Volts
DC Input Current, typ.	4.3 Amperes
Level Control (Optional)	20 dB (min.)
Mechanical Dimensions (With Heatsink)	7.5 x 5.0 x 2.0 inches
RF Connectors	SMA Female
Operating Temperature	0°C to +55°C
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

DIMENSIONS IN INCHES



Pin	Description	Values
RF Input	Input Connector (SMA Female)	- 4 dBm, typical
RF OUT	Output Connector (SMA Female)	+ 41 dBm @ P1dB
RF SAMPLE (Optional)	Sample RF Port (SMA Female)	30 dBr
GND	Ground Turret	---
REV	Reverse Power Detector	∞ VSWR @ + 41dBm \approx + 5 Volts
FWD	Forward Power Detector	+ 41dBm Output Power \approx + 5 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 6.6 Amperes (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

Specifications subject to change without notice.