

The **SM2325-34HS** is a solid state GaAs amplifier designed primarily for Industrial Scientific Medical (ISM), Wireless Communications Systems (WCS), and Wireless Local Loop (WLL) applications. This amplifier operates from 2300 to 2500 MHz, provides 33 dB of gain,  $\pm 0.5$  dB gain flatness over the full band, and +34 dBm of output power at the 1 dB compression point. This highly linear design provides an output third order intercept point of + 47 dBm. The amplifier operates off a single supply of +12V (+10V available as an option) and 1.2 A typical. The unit uses the latest surface mount technologies to provide numerous features, while maintaining a very small size.

### Features

- Mis-Match Protected
- Over Voltage Protection
- Thermal Protection with Auto Reset

### Options

- Logic On/Off Control
- Integral Heatsink
- Single DC Supply of +10 V

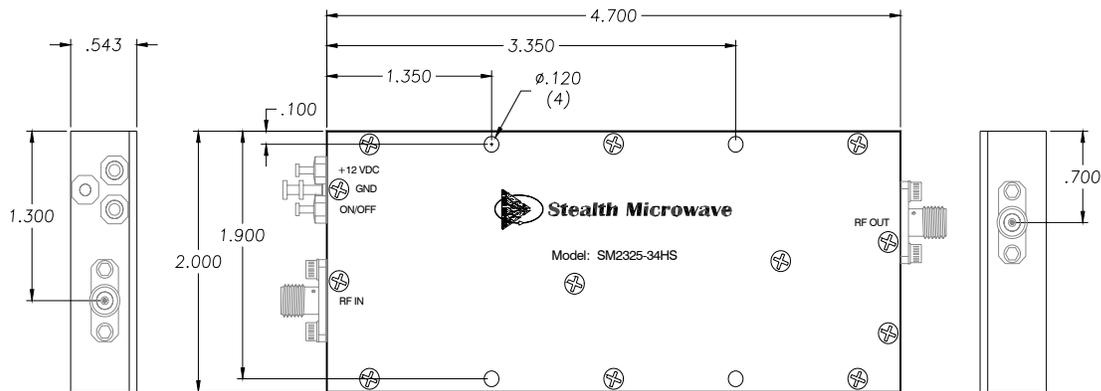
### Configurations

- Module
- 19" Rack



Parameter	Specification
Frequency Range	2.3 – 2.5 GHz
Pout (P1dB)	+ 34 dBm
Third Order Intercept Point	+ 47 dBm (typ.)
Linear Gain	33 dB $\pm$ 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-16 dB
DC Input Voltage	+12 Volts (+10 V Operation Available)
DC Input Current	1.2 Amperes (typ.) 1.4 Amperes (max.)
Mechanical Dimensions	4.7 x 2.0 x 0.54 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)	+1 dBm typ.
RF Output	Output Connector (SMA Female)	+ 34 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 1.2 Amperes
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

*Specifications subject to change without notice.*