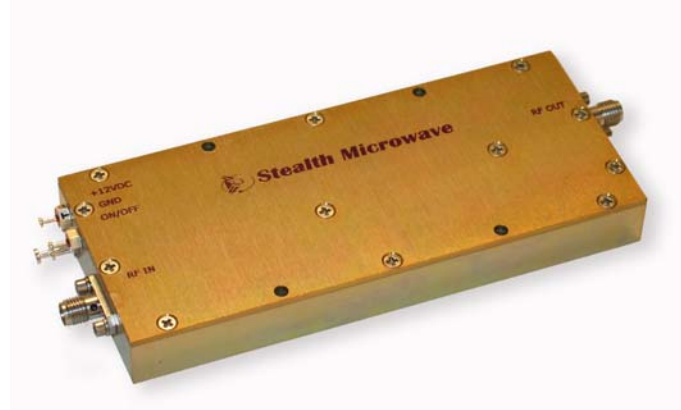


The **SM2023-34HS** is a solid state GaAs amplifier designed primarily for the Universal Telecommunications Service (UMTS) market. This amplifier operates from 2000-2300 MHz, provides 33 dB of Linear Gain with  $\pm 0.5$  dB of Gain Flatness over the full band, and +34 dBm of output power at the 1 dB 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

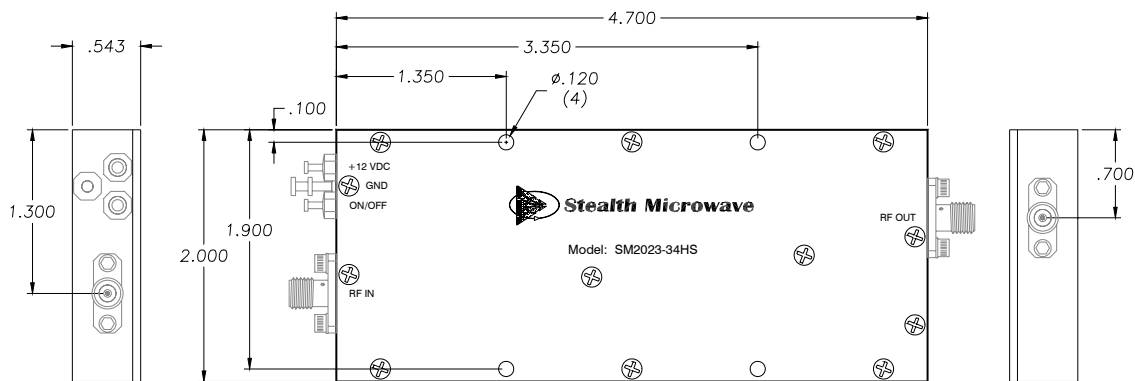
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset

### Options

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

Parameter	Specification
Frequency Range	2.0 – 2.3 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 Amps (typ.) 1.4 Amps (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 Amps
On/Off	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

*Specifications subject to change without notice.*