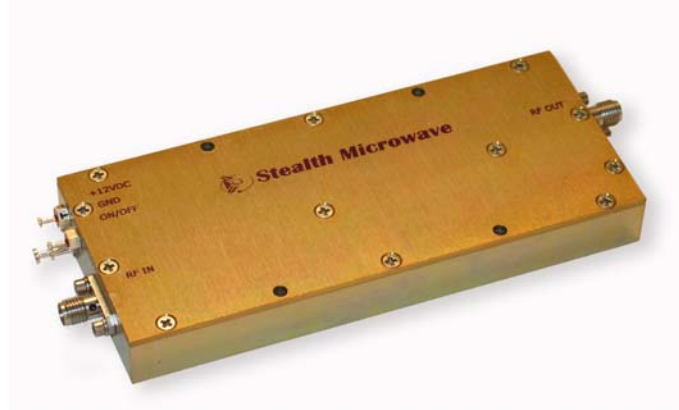


The **SM2023-37HS** is a solid state GaAs amplifier designed primarily for the UMTS (Universal Mobile Telecommunications Service) market. This amplifier operates from 2000-2300 MHz, provides 34 dB of Linear Gain with  $\pm 0.5$  dB of Gain Flatness over the full band, and +37 dBm of Output Power at the 1 dB compression point. This highly linear design provides an Output Third Order Intercept Point of + 50 dBm. The amplifier operates off a single supply of +12V (+10V available as an option) and 1.9 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

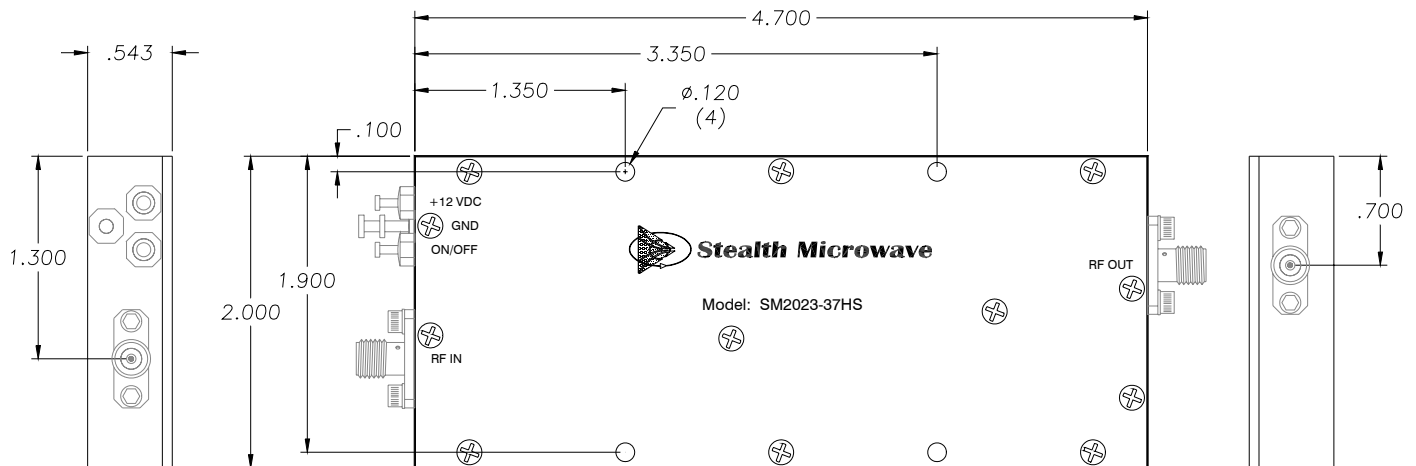
- Logic On/Off Control
- Integral Heatsink
- Single DC Supply of +10V

Parameter	Specification
Frequency Range	2.0 – 2.3 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 50 dBm
Linear Gain	34 dB $\pm$ 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16dB
DC Input Voltage	+12 Volts (+10 V Operation Available)
DC Input Current	1.9 Amps (typ.)
Mechanical Dimensions	4.7 x 2.0 x 0.54 inches
RF Connectors	Female SMA
Operating Temperature	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	Description	Values
RF IN	Input Connector (SMA Female)	+3 dBm typ.
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	DC Input Voltage	+ 12 Volts @ 1.9 Amps
ON/OFF	TTL Logic On/Off	0 Volts = Off, +5 Volts = On

Specifications subject to change without notice.

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