

# Model SM2023-37H

2000-2300 MHz 5 Watt Linear Power Amplifier FOR UMTS APPLICATIONS

Model **SM2023-37H** is an 2000 to 2300 MHz solid state GaAs amplifier designed for multi-purpose use in various wireless applications. This module provides +37 dBm of output power at P1dB, and OIP3 of +50 dBm. The gain flatness over the full band is  $\pm$  .5 dB. It comes standard in modular form with four (4) thru-holes for mounting.

### **Features**

- Mis-Match Protected
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

#### **Options**

- Logic On/Off Control
- Integral Heatsink

#### **Configurations**

- Module
- Laboratory Unit
- 19" Rack



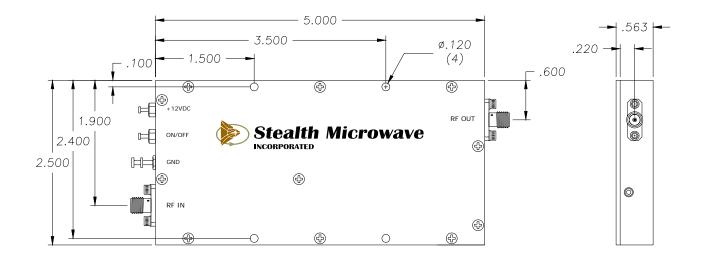
Parameter	Specification
Frequency Range	2.0 – 2.3 GHz
Pout (P1dB)	+ 37 dBm (min.)
Third Order Intercept Point	+ 50 dBm (min.)
Linear Gain	$34 \text{ dB} \pm 1 \text{ dB}$
Gain Flatness over Full Band	± .5 dB
Input/Output VSWR	-16 dB
DC Input Voltage	+ 12 Volts
DC Input Current	1.9 Amperes (typ.)
Mechanical Dimensions	5.0 x 2.5 x .6 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



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## **DIMENSIONS IN INCHES**



Pin	Description	Values
RF Input	Input Connector (SMA Female)	+ 4 dBm
RF Output	Output Connector (SMA Female)	+ 37 dBm
GND	Ground Turret	
+12VDC	DC Input Voltage	+ 12 Volts @ 1.9 Amperes
On/Off	TTL Logic On/Off	0  Volts = Off, +5  Volts = On

Specifications subject to change without notice.