



## 1700-2700 MHz 5 Watt Linear Power Amplifiers FOR LAB & WIDEBAND APPLICATIONS

The SM1727-37 and SM1727-37H are solid state GaAs amplifiers designed for multi-purpose use in the wireless markets. With 1 GHz of bandwidth, these small amplifiers can be used in DCS1800, ISM, WLL, PCS and MMDS applications. These units operate over a frequency range of 1700-2700 MHz, the 1 dB compression point is +37 dBm, and the output third order intercept point is +51 dBm. Of the two versions available, the -37 has 20 dB of linear gain, and the -37H has 33 dB of linear gain. The gain flatness over the full frequency band is just ± 0.35 dB.



- Single DC Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

## **Options**

- Harmonic Filter
- Logic On/Off Control

## **Configurations**

- Module
- Laboratory Unit
- 19" Rack



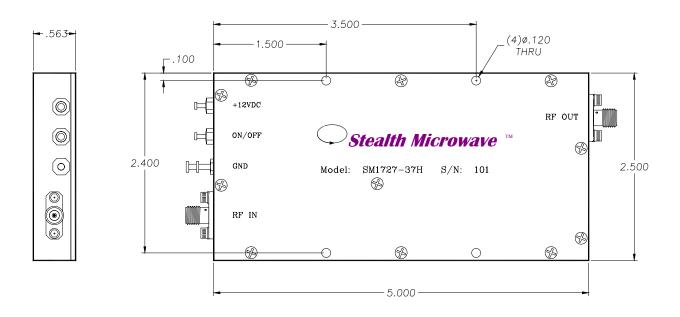
Item	SM1727-37	SM1727-37H
Frequency Range	1.7 - 2.7 GHz	1.7-2.7 GHz
Pout (P1dB)	+ 37 dBm	+37 dBm
Third Order Intercept Point	+ 51 dBm	+51 dBm
Linear Gain	$20 \text{ dB} \pm 1.0 \text{ dB}$	$33 \text{ dB} \pm 1.0 \text{ dB}$
Gain Flatness over Full Band	± .5 dB	± .5 dB
Input/Output Return Loss	-11/-14 dB	-16/-14 dB
DC Input Voltage	+ 12 Volts	+12 Volts
DC Input Current	1.9 Amperes	1.9 Amperes
Mechanical Dimensions	5.0 x 2.5 x .563 in.	5.0 x 2.5 x .563 in.
RF Connectors	SMA Female	SMA Female
Operating Temperature	0° C to +55° C	0° C to +55° C
Operating	95% Non-	95% Non-
Humidity	condensing	condensing
Operating Altitude	Up to 10,000 feet	Up to 10,000 feet
	above Sea Level	above Sea Level

1007 Whitehead Road Ext., Trenton, NJ 08638 Tel: (609) 538-8586 ♦ Fax: (609) 538-8587

Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

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## **DIMENSIONS IN INCHES**



Pin	Description	Values
RF Input	Input Connector (SMA Female)	+18 dBm typ. for <b>-37</b> , +5 dBm typ. for <b>-37H</b>
RF Output	Output Connector (SMA Female)	+ 37 dBm @ P1dB
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.

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