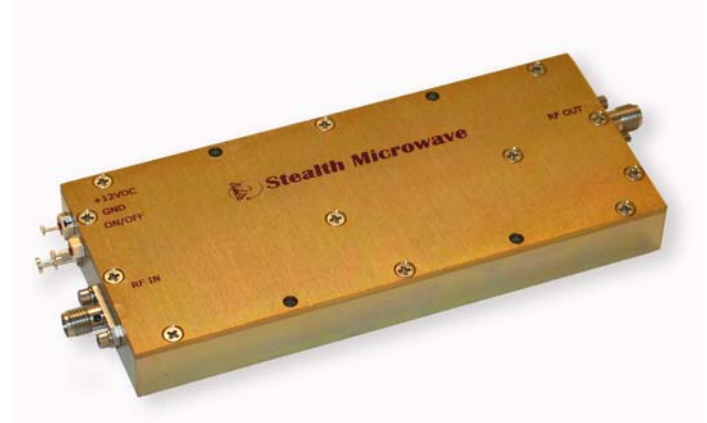


The **SM3436-37HS** is a solid state GaAs amplifier designed primarily for multiple wireless markets. **With 200 MHz of bandwidth**, the amplifier can be used in Industrial Scientific Medical (ISM), Wireless Communications Systems (WCS), and Broadband Wireless Access (BWA) applications. This amplifier operates from 3400 to 3600 MHz, provides 36 dB of gain, ± 0.5 dB 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 (typ). 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
- High Speed Switching for TDD

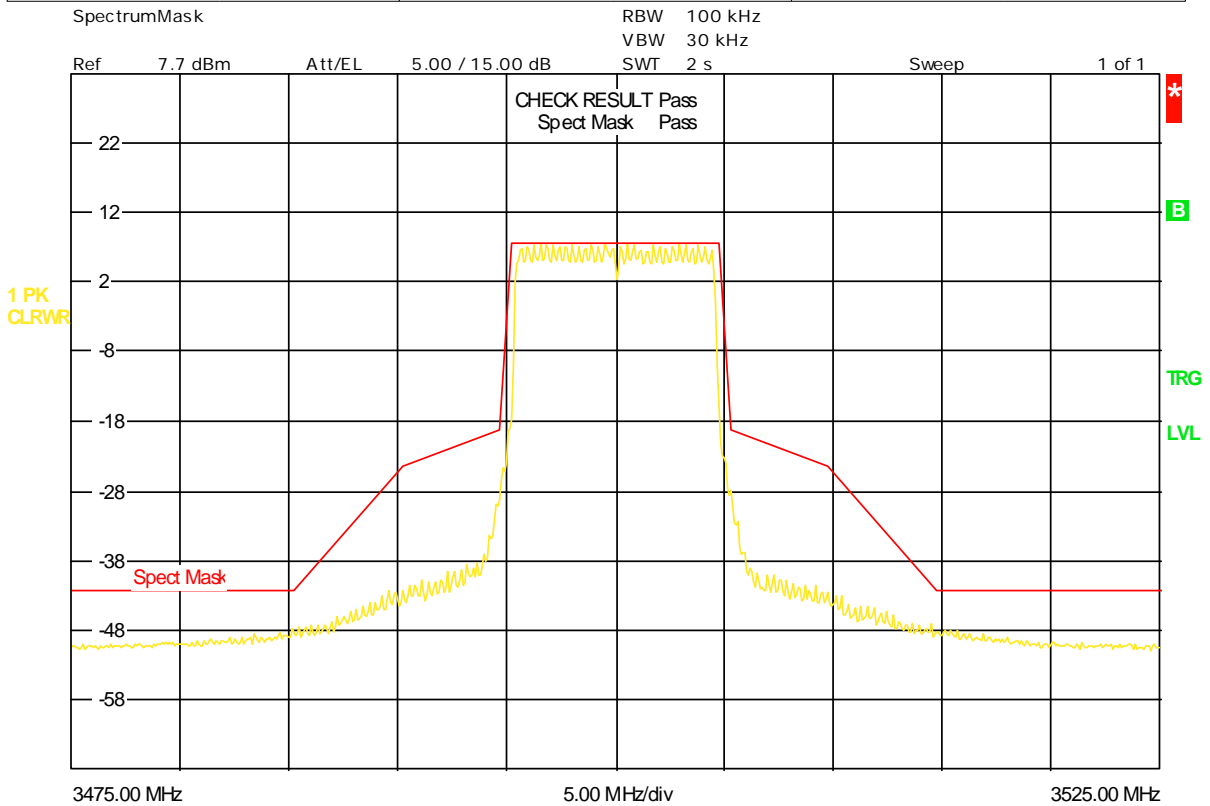
Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	3.4 – 3.6 GHz
Pout (P1dB)	+ 37 dBm
Third Order Intercept Point	+ 50 dBm
Linear Gain	33 dB \pm 1.0 dB
Gain Flatness over Full Band	$\pm .5$ dB
Input/Output Return Loss	-14 dB / -14dB
DC Input Voltage	+12 Volts (+10 V Operation Available)
DC Input Current	1.9 Amperes (typ.)
Mechanical Dimensions (Without Heatsink)	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

**WiMAX PERFORMANCE – IEEE MASK & EVM FOR 30dBm Pout
802.16d 10 MHz 64 QAM OFDM**

IEEE 802.16 - 2004					
Frequency:	3.5 GHz	Signal Level Setting:	6.2 dBm	External Att:	24.5 dB
Sweep Mode:	Continuous	Trigger Mode:	Power	Trigger Offset:	-10 μs
Burst Type:	OFDM DL Burst	Modulation:	64QAM3/4	No Of Data Symbols:	1/2425



Running ...

SM3436-37 S/N 18288 TR06-210 802.16d 10MHz 30 symbols 64 QAM

Date: 14.JUL.2006 10:15:27

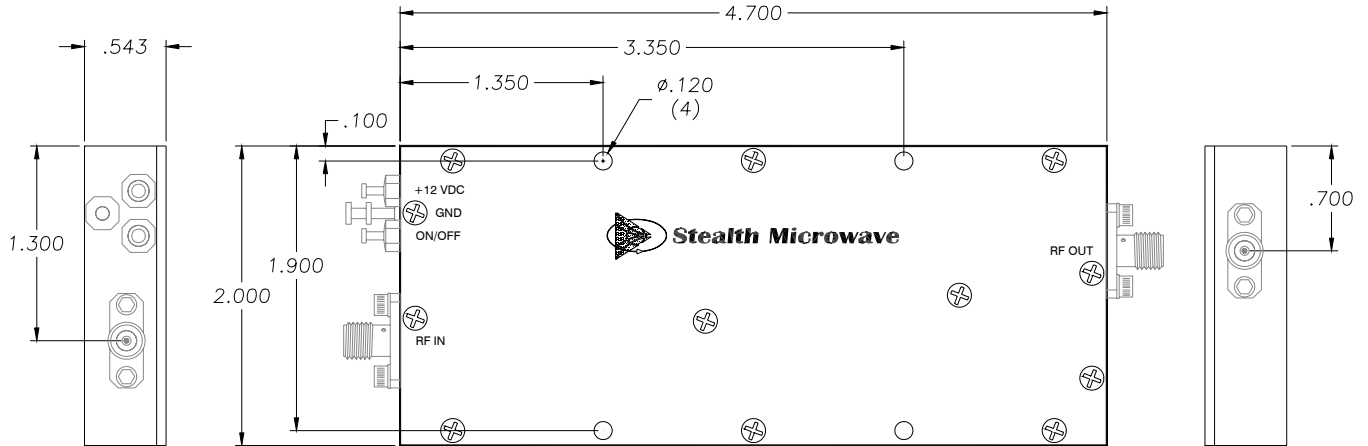
IEEE 802.16 - 2004					
Frequency:	3.5 GHz	Signal Level Setting:	6 dBm	External Att:	24.5 dB
Sweep Mode:	Continuous	Trigger Mode:	Power	Trigger Offset:	-10 µs
Burst Type:	OFDM DL Burst	Modulation:	64QAM3/4	No Of Data Symbols:	1/2425

Result Summary						
No. of Bursts	6					
	Min	Mean	Limit	Max	Limit	Unit
EVM All Carriers	- 44.53	- 44.16	- 31.00	- 43.84	- 31.00	dB
EVM Data Carriers	- 44.53	- 44.14		- 43.80		dB
EVM Pilot Carriers	- 44.96	- 44.68		- 44.37		dB
IQ Offset	- 51.61	- 51.48	- 15.00	- 51.42	- 15.00	dB
Gain Imbalance	- 0.01	- 0.01		- 0.01		dB
Quadrature Error	- 0.064	- 0.062		- 0.059		°
Center Frequency Error	0.25	- 0.37	± 28000	- 0.99	± 28000	Hz
Clock Error	- 0.00	- 0.02	± 8	- 0.06	± 8	ppm
Burst Power	29.23	29.23		29.23		dBm
Crest Factor	8.63	8.63		8.63		dB
RSSI	7.53	7.53		7.68		dBm
RSSI Standard Deviation		2.10				dB
C INR	42.83	44.75		45.52		dB
C INR Standard Deviation		31.00				dB

Running ...

SM3436-37 S/N 18288 TR06-210 802.16d 10MHz 30 symbols 64 QAM

Date: 14.JUL.2006 10:07:45

DIMENSIONS IN INCHES


Pin	Description	Values
RF IN	Input Connector (SMA Female)	+2 dBm typ.
RF OUT	Output Connector (SMA Female)	+ 37 dBm @ P1dB
GND	Ground Turret	---
+12 VDC	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.