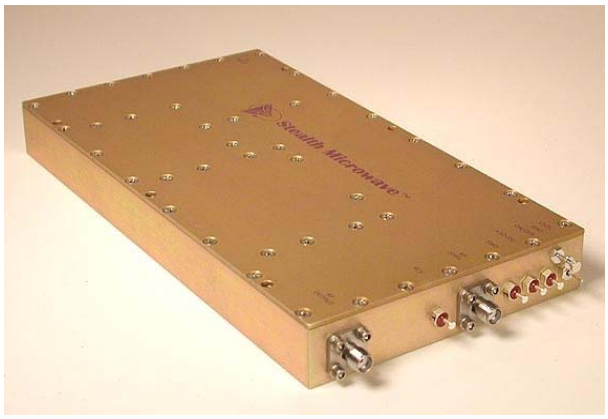
Stealth Microwave
INCORPORATED

Model SM3437-43

3400-3700 MHz
20 Watt Linear Power Amplifier
FOR WLL APPLICATIONS

The **SM3437-43** is a 3.4 to 3.7 GHz solid state GaAs FET amplifier designed for the Wireless Local Loop markets. The amplifier provides 50 dB of linear gain with a P1dB of +43 dBm. The unit provides ultra-linear performance for rigorous system requirements. It is available in modular form (standard), or in 19" rack mountable form.



Features

- Integrated Linearizer
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation

Options

- Forward/Reverse Power Detection
- RF Sampling Port
- Pulse Control with switching speeds up to 100 kHz
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- 19" Rack Mount

Parameter	Specification
Frequency Range	3.4 – 3.7 GHz
Pout (P1dB)	+43 dBm
Output Third Order Intercept Point (OIP3)	+54 dBm
Linear Gain	50 dB ± 1 dB
Gain Flatness (over full band)	± .5 dB
Gain Change (over temperature)	± .5 dB
Input/Output Return Loss	-16 dB / -16 dB
DC Input Voltage	+12 Volts
DC Input Current	8.5 Amperes (operational)
Mechanical Dimensions	7.50 x 3.97 x .79 inches
RF Connectors	SMA Female
Operating Temperature	0ºC to +55ºC
Operating Humidity	95% Non-condensing
Operating Altitude	Up to 10,000 feet above Sea Level

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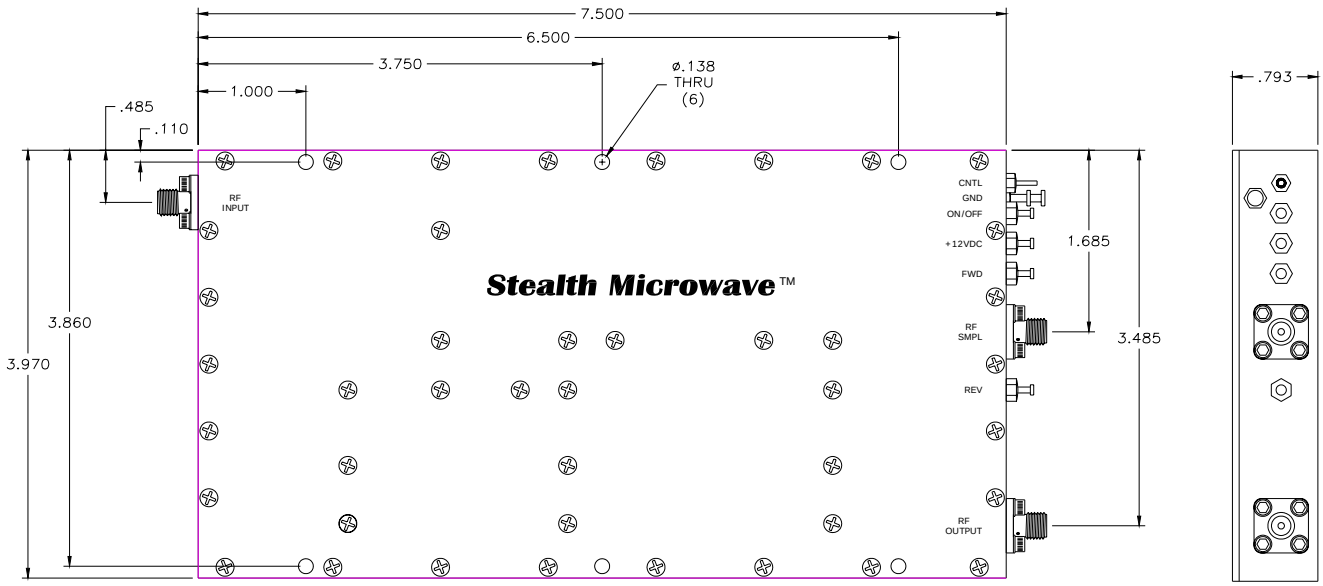
DIMENSIONS IN INCHES



Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	- 6 dBm (max.)
RF OUTPUT	Output Connector (SMA Female)	+ 43 dBm @ P1dB
RF SAMPLE	RF Sample Port (SMA Female)	30 dBr
GND	Ground Turret	---
FWD	Forward Power Detector	+ 37 dBm Output Power ≈ + 2.5 Volts
REV	Reverse Power Detector	∞ VSWR @ + 37 dBm ≈ + 5.0 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 8.5 Amperes. (operational)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On
CNTL	TTL Pulse Control	Rates up to 100 kHz

Specifications subject to change without notice.

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