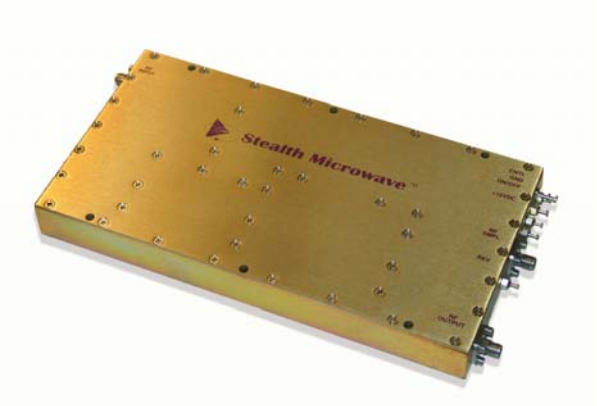
Stealth Microwave
INCORPORATED

# Model SM3436-40L

**3400-3600 MHz**
**10 Watt Ultra Linear Power Amplifier**
**FOR BWA APPLICATIONS**

Stealth Microwave's **SM3436-40L** is an affordable solid state GaAs amplifier designed primarily for the 3.5 GHz Broadband Wireless Access markets. Its compact size and high linearity make it ideally suited for systems using TD-CDMA and WiMAX. The amplifier operates from 3.4 to 3.6 GHz, provides 45 dB of Linear Gain, has a P1dB of +40 dBm, and OFDM output power of 34 dBm at 45dBc ACPR (min).




## Features

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

## Options

- Forward/Reverse Power Detection
- RF Sample Port
- Fan
- TTL On/Off Control
- Pulse control for TDD applications with <µs rise/ fall time
- Integral Heatsink

## Configurations

- Module
- 19" Rack
- Bench Top Lab Unit

| Parameter | Specification |
|---|---|
| Frequency Range | 3.4 – 3.6 GHz |
| Pout (P1dB) | + 38 dBm (typ.) |
| ACPR for +34dBm 10MHz OFDM output | -45 dBc (min.) |
| Linear Gain | 55 dB ± 1 dB |
| Gain Flatness over Full Band | ± .5 dB |
| Input/Output Return Loss | -16 dB / -16dB |
| DC Supply | + 12 Volts @ 4 Amperes |
| Harmonic Filter (Optional) | - 55 dBc |
| Mechanical Dimensions | 7.5 x 3.74 x 2.0 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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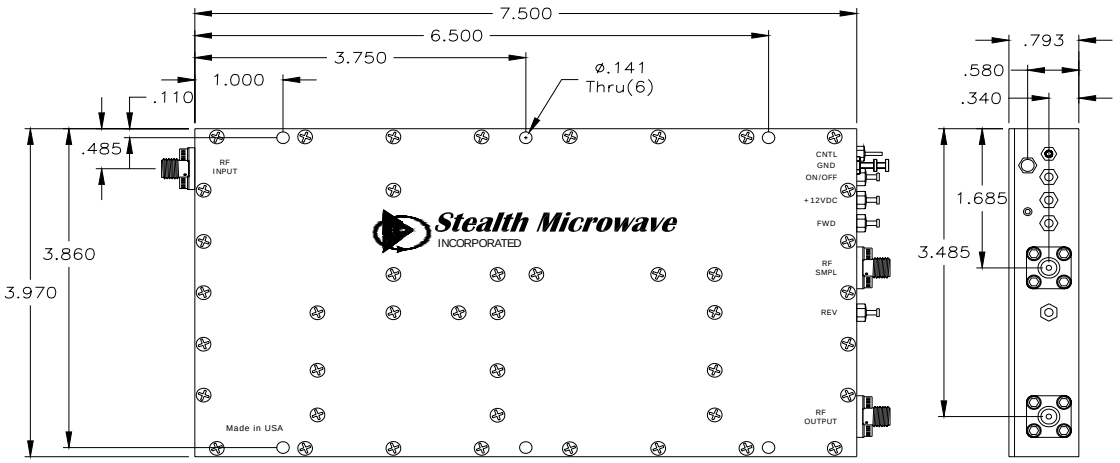
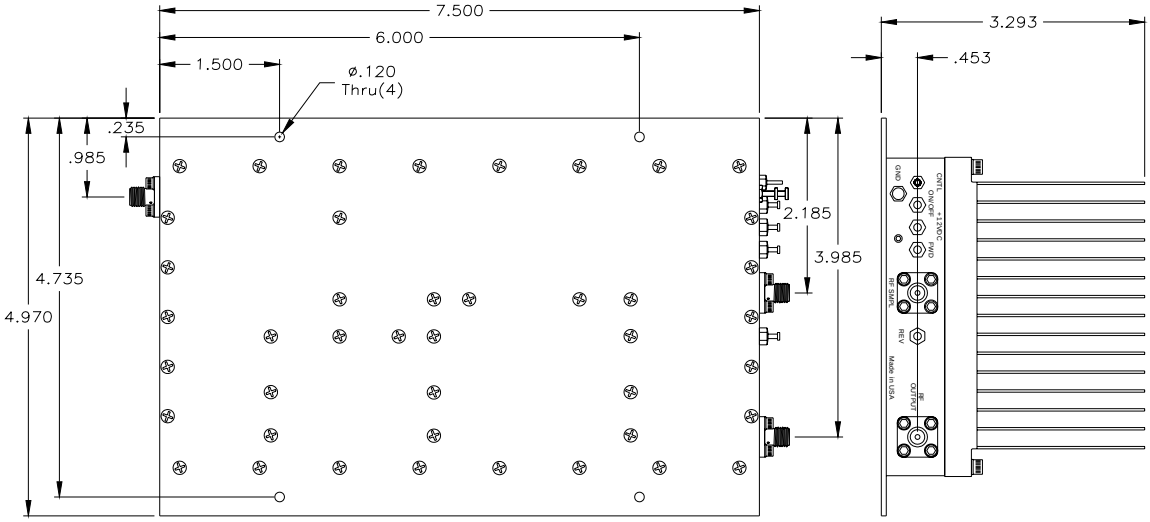
## DIMENSIONS IN INCHES




## DIMENSIONS WITH HEATSINK

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| Pin | Description | Values |
|---|---|---|
| RF INPUT | Input Connector ( SMA Female ) | - 4 dBm (max.) |
| RF OUTPUT | Output Connector (SMA Female) | + 40 dBm @ P1dB |
| RF SAMPLE | RF Sample Port (SMA Female ) | 30 dBr |
| GND | Ground Turret | --- |
| FWD | Forward Power Detector | + 33 dBm Output Power ≈ + 2.0 Volts |
| REV | Reverse Power Detector | ∞ VSWR @ + 33 dBm ≈ + 5.0 Volts |
| +12VDC | DC Input Voltage | + 12 Volts @ 4 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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