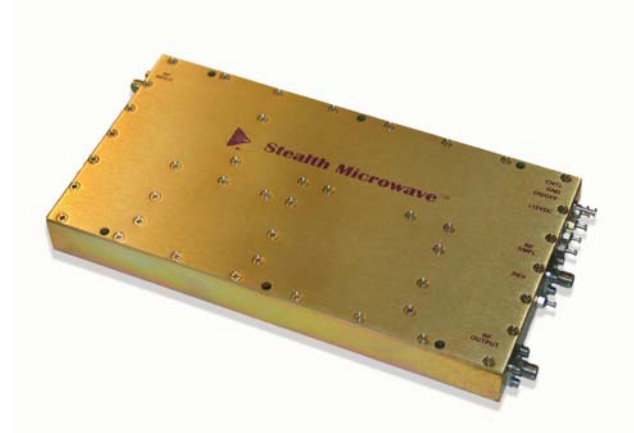


The **SM2527-41** is a 2.5 to 2.7 GHz solid state GaAs FET amplifier designed for the Multichannel Multipoint Distribution System (MMDS) market. By using the latest surface mount technologies, this small amplifier can easily fit into tightly packed transmitters and repeaters. The output power (P1dB) is +41 dBm, the OIP3 is +52 dBm, and the linear gain is 55 dB. The unit is available in modular form (standard), or as a rack mountable amplifier.



Features

- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

Options

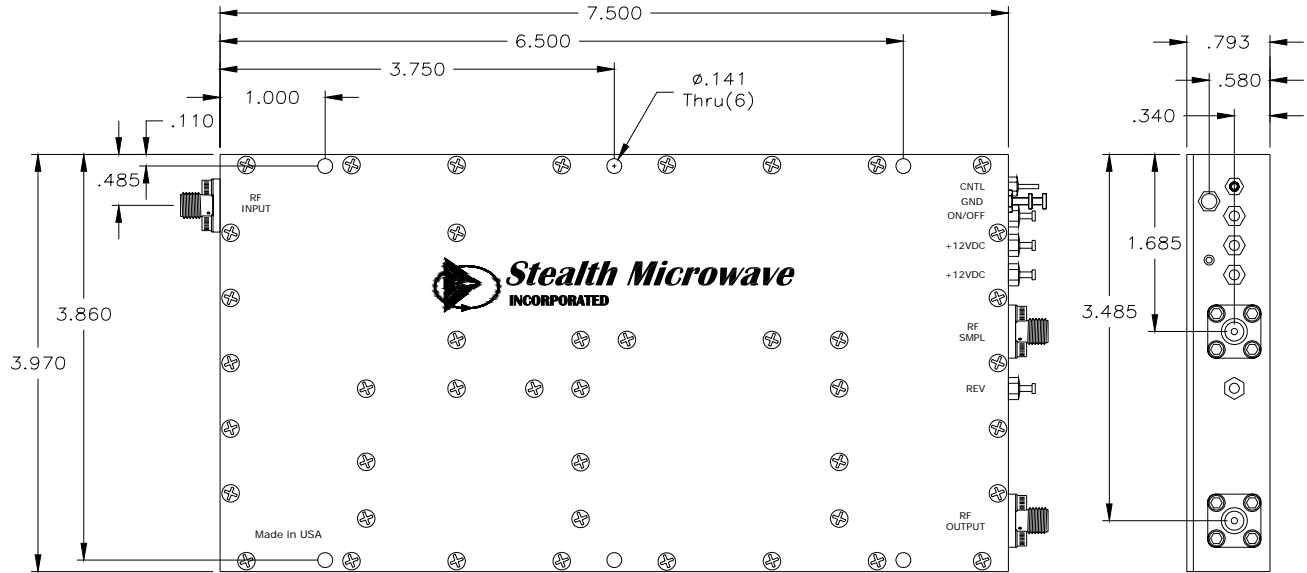
- Forward/Reverse Power Detection
- RF Sampling
- Logic On/Off Control
- Integral Heatsink

Configurations

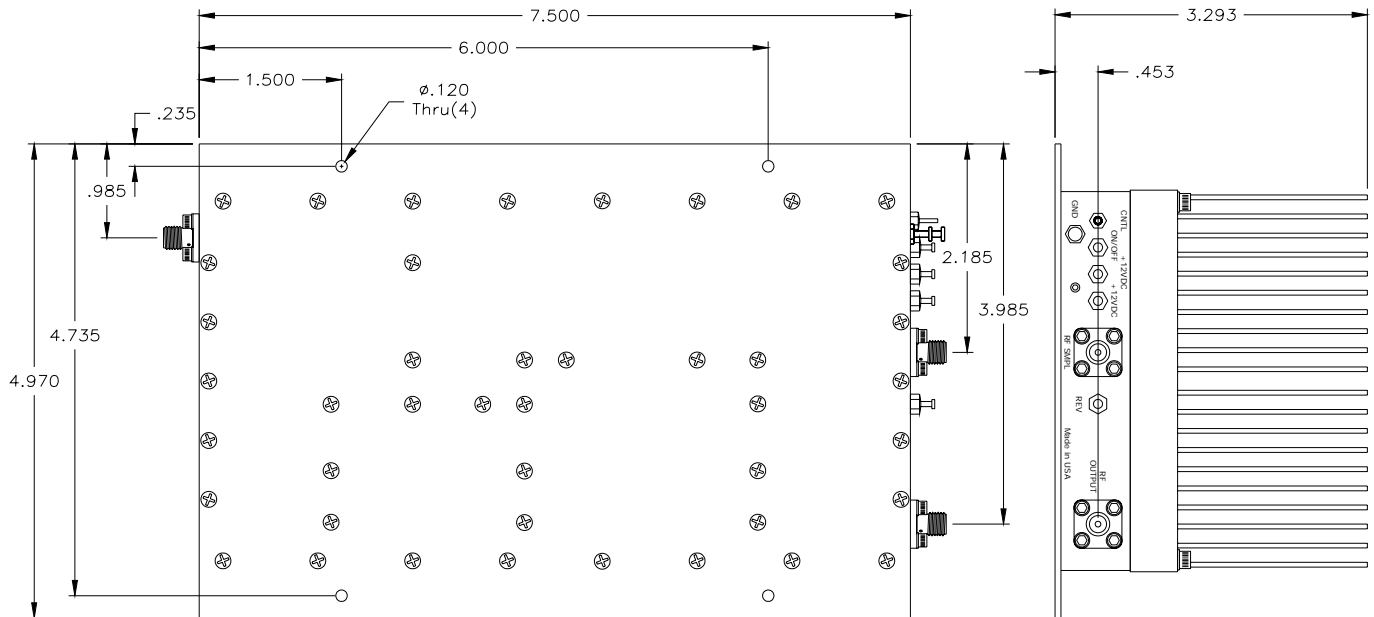
- Module
- 19" Rack

| Parameter | Specification |
|------------------------------|-----------------------------------|
| Frequency Range | 2.5 - 2.7 GHz |
| Pout (P1dB) | + 41 dBm |
| Third Order Intercept Point | + 52 dBm |
| Linear Gain | 55 dB \pm 1 dB |
| Gain Flatness over Full Band | \pm .5 dB |
| Gain Change over Temperature | \pm .5 dB |
| Input/Output Return Loss | -16 dB /-18 dB |
| DC Input Voltage | + 12 Volts |
| DC Input Current, typ. | 4.3 Amperes |
| Level Control (Optional) | 20 dB (min.) |
| Mechanical Dimensions | 7.5 x 4.0 x 2.0 in. |
| 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 |

DIMENSIONS IN INCHES



HEATSINK OPTION



| Pin | Description | Values |
|----------------------|-------------------------------|--|
| RF Input | Input Connector (SMA Female) | - 4 dBm, typical |
| RF OUT | Output Connector (SMA Female) | + 41 dBm @ P1dB |
| RF SAMPLE (Optional) | Sample RF Port (SMA Female) | 30 dB |
| GND | Ground Turret | --- |
| REV | Reverse Power Detector | ∞ VSWR @ + 41 dBm \approx + 5 Volts |
| FWD | Forward Power Detector | + 41 dBm Output Power \approx + 5 Volts |
| +12VDC | DC Input Voltage | + 12 Volts @ 4.6 Amperes (typ.) |
| On/Off | TTL Logic On/Off | 0 Volts = Off, + 5 Volts = On |

Specifications subject to change without notice.