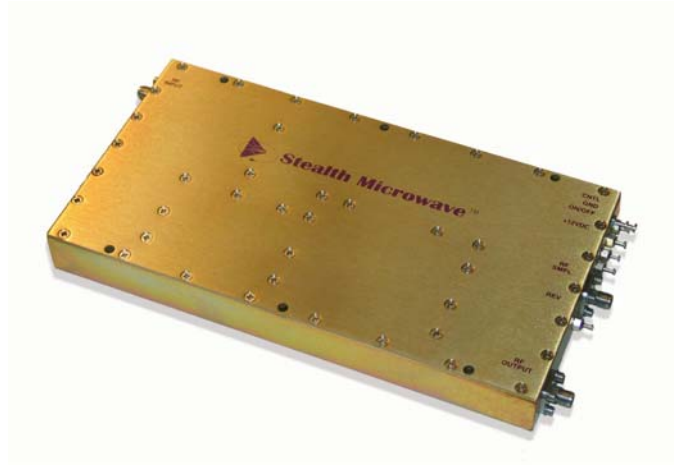


Stealth Microwave's **SM2527-47L** is a solid state GaAs FET amplifier designed for the Broadband Wireless Access market. Using a proprietary pre-distortion technique, the OIP3 is improved by 8 dB. The P1dB is +47 dBm, the linear gain is 56 dBm, and the gain change over temperature is only ± 0.5 dB. The unit is available in modular form (standard), or as a rack mountable amplifier.



Features

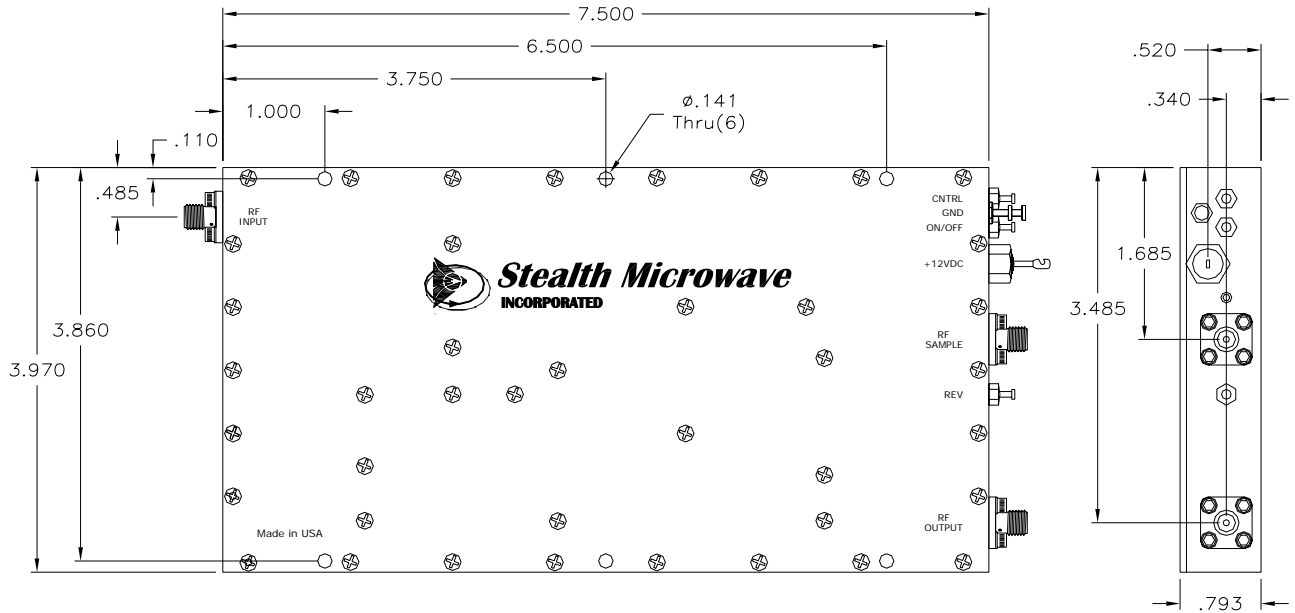
- Single Power Supply
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

Options

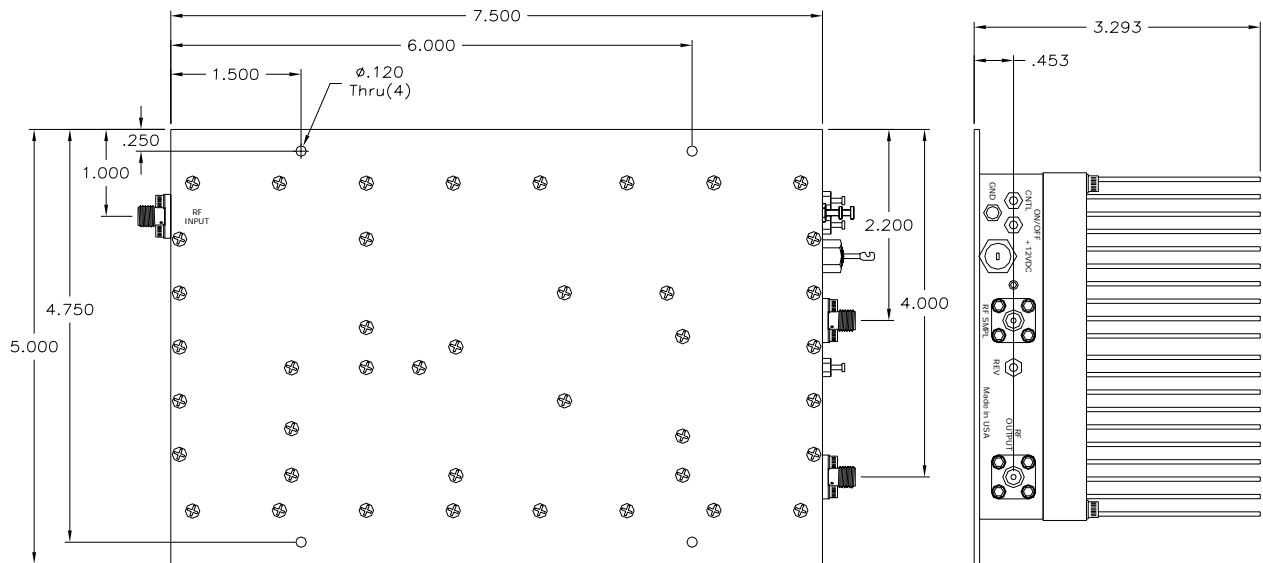
- Forward/Reverse Power Detection
- RF Sampling
- Logic On/Off Control
- Integral Heatsink
- High Speed Switching for TDD

Parameter	Specification
Frequency Range	2.5 - 2.7 GHz
Pout (P1dB)	+ 47 dBm
Third Order Intercept Point	+ 65 dBm
Linear Gain	56 dB \pm 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-14 dB /-18 dB (Output Isolator)
DC Input Voltage	+ 12 Volts
DC Input Current	18 Amps (Varies per application)
Mechanical Dimensions	7.5 x 4.0 x 3.3 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

DIMENSIONS IN INCHES



HEATSINK OPTION



Pin	Description	Values
RF Input	Input Connector (SMA Female)	- 9 dBm, typical
RF OUT	Output Connector (SMA Female)	+47dBm @P1dB
RF SAMPLE	Sample RF Port (SMA Female)	30 dBr
GND	Ground Turret	---
REV	Reverse Power Detector	∞ VSWR @ + 41 dBm \approx + 3.0 Volts
FWD	Forward Power Detector	+ 41 dBm Output Power \approx + 2.5 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 18 Amps (typ.)
On/Off	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

Specifications subject to change without notice.