

Stealth Microwave's **SM2527-47** is a 2.5 to 2.7 GHz solid state GaAs 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.

### Features

- Single DC Supply of +12 V
- 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
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- Integral Heatsink
- Fan
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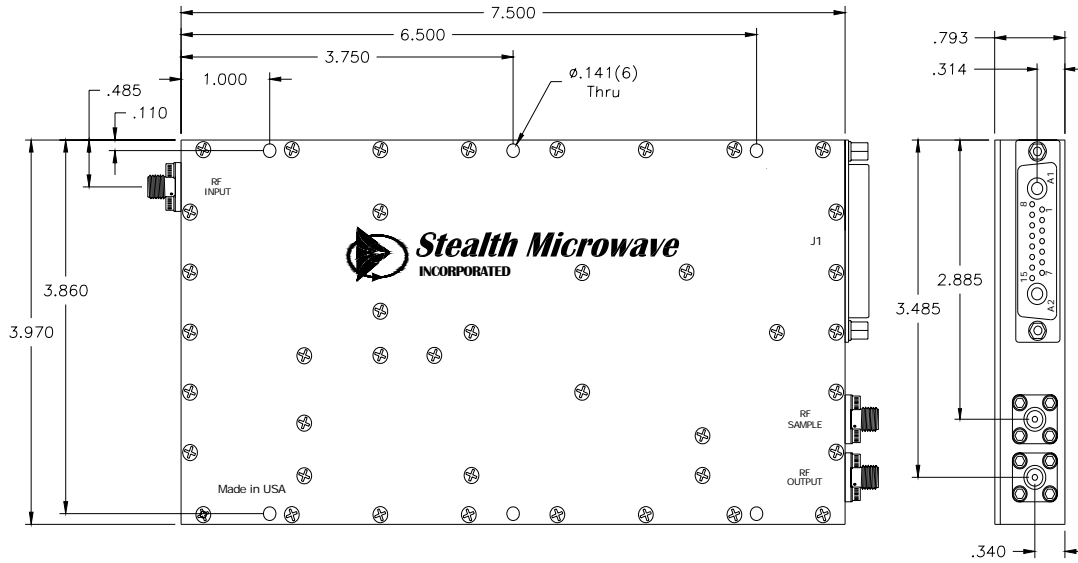
### Configurations

- Module
- 19" Rack
- Bench Top Lab Unit



Parameter	Specification
Frequency Range	2.5 - 2.7 GHz
Pout (P1dB)	+ 47 dBm
Third Order Intercept Point	+ 58 dBm
Linear Gain	56 dB ± 1 dB
Gain Flatness over Full Band	± .5 dB
Gain Change over Temperature	± .5 dB
Input/Output Return Loss	-14 dB /-18 dB
Harmonics @ P1dB	-60dBc (min.) -65dBc (typ.)
DC Input Voltage	+ 12 Volts
DC Input Current	18 Amperes (Varies per application)
Mechanical Dimensions (Without Heatsink)	7.5 x 4.0 x .8 inches
RF Connectors	SMA Female
Operating Temperature (Baseplate)	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**

Connector	Description	Values
RF Input	Input Connector (Female SMA)	- 7 dBm max
RF OUT	Output Connector (Female SMA)	+47 dBm @ P1dB
RF SAMPLE	Sample RF Port (Female SMA)	30 dBr

### J1 CONNECTOR: 17W2 D-SUB

Pin	Description	Values
A1	+12VDC	--
A2	GND	--
1	CNTL	High Speed Switching (+5V = ON / 0V = MUTE)
2	TTL	TTL On/Off Control (+5V = ON / 0V = OFF)
3-5	Unused	--
6	Reflected Power Detection	Set to 3.0 V at +38dBm output power into open load Detector Slope: 60 mV / dB
7	Forward Power Detection	Set to 3.1 V at +38dBm output power into 50 $\Omega$ load Detector Slope: 60 mV / dB
8-15	GND	--

*Specifications subject to change without notice.*