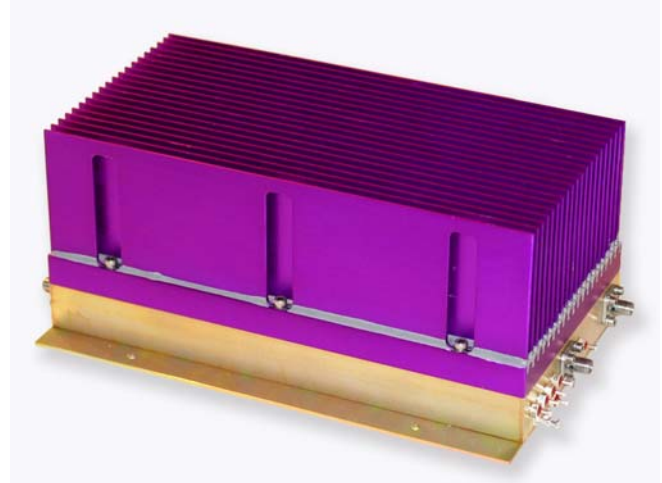


The **SM2527-41L** is a 2.5 to 2.7 GHz solid state GaAs FET amplifier designed for the Multichannel Multipoint Distribution System (MMDS) market. The unit provides +41 dBm of output power at P1dB, 55 dB of linear gain, and an OIP3 of +60 dBm. Our proprietary pre-distortion technique improves the OIP3 by almost 9 dB. This amplifier is available in modular form (standard), or in a 19" rack mount configuration.



Features

- Built-in linearizer
- Single Power Supply
- Over Voltage Protection
- Thermal Protection with Auto Reset
- Temperature Compensation
- Integral Output Isolator

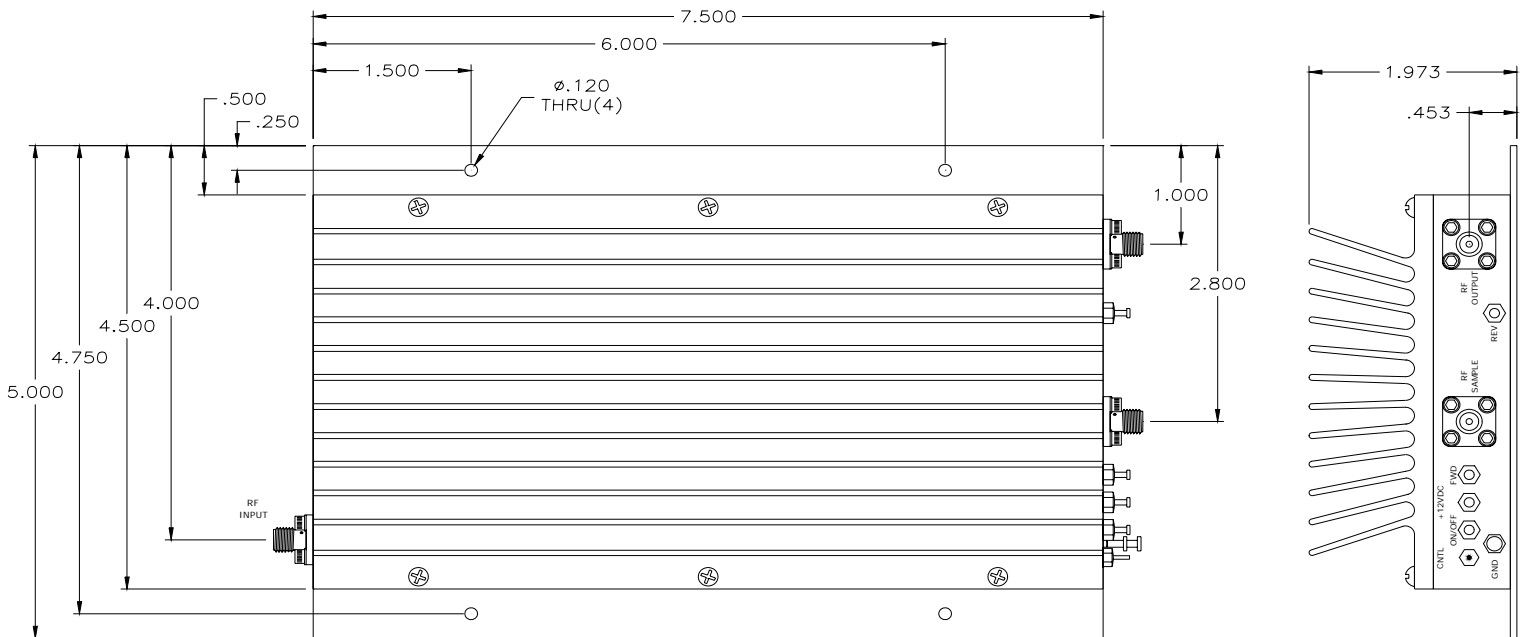
Options

- Forward/Reverse Power Detection
- RF Sampling
- Pulse Control of up to 10 μ s
- 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	+ 60 dBm
Linear Gain	55 dB \pm 2 dB
Gain Flatness over Full Band	\pm .5 dB
Gain Change over Temperature	\pm .5 dB
Input/Output Return Loss	-16 dB /-18dB
DC Input Voltage	+ 12 Volts
DC Input Current	5.0 Amperes (Varies per application)
Mechanical Dimensions	7.5 x 4.0 x 2.0 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


Pin	Description	Values
RF INPUT	Input Connector (SMA Female)	- 11 dBm, typical
RF OUTPUT	Output Connector (SMA Female)	+41dBm @P1dB
RF SAMPLE	Sample RF Port (SMA Female)	30 dB
GND	Ground Turret	---
FWD	Forward Power Detector	+ 35 dBm Output Power \approx + 2.50 Volts
REV	Reverse Power Detector	∞ VSWR @ + 35 dBm \approx + 2.35 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 4.3 Amperes (typ.)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On
CNTL	TTL Pulse Control	Switching Speed up to 100 kHz

Specifications subject to change without notice.