

The **SM2027-41LS** is a 2.0 to 2.7 GHz solid state GaAs FET amplifier designed for demanding applications such as digital video transmission. The amplifier provides 51 dB of linear gain with a P1dB of +41 dBm. Our proprietary pre-distortion technique provides a 5 dB improvement in OIP3, which allows for +34dBm of COFDM output power at >40 dBc ACP. It is available in modular form (standard), as a lab unit or in 19" rack mountable form.



Features

- Integrated Linearizer
- Single Power Supply
- Thermal Protection with Auto Reset

Options

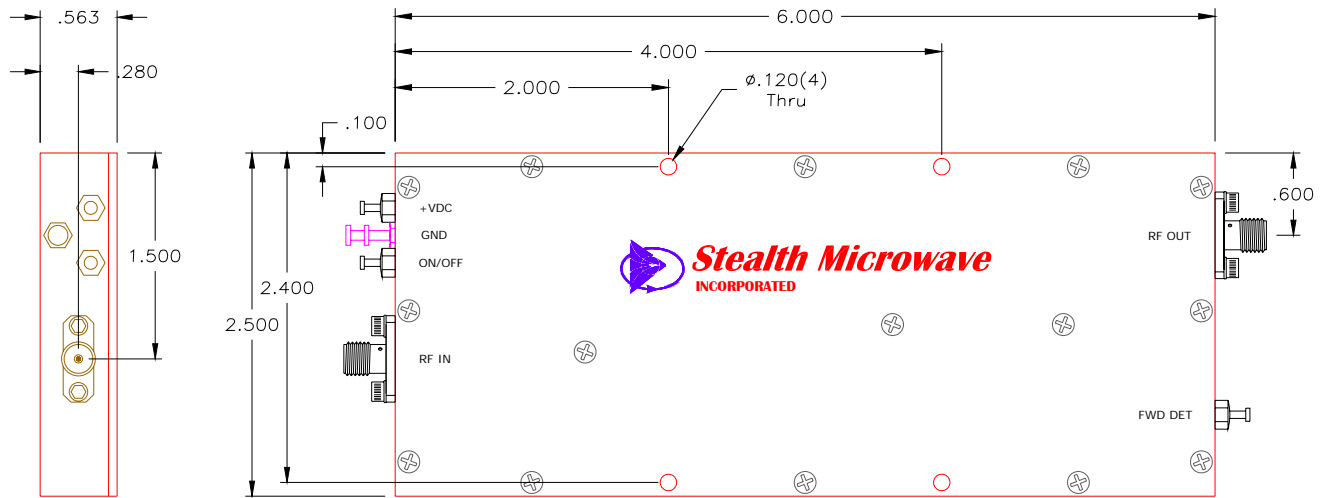
- Forward Power Detection
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module (Standard)
- Laboratory Unit
- 19" Rack Mount

Parameter	Specification
Frequency Range	2.0 – 2.7 GHz
Pout (P1dB)	+41 dBm (min.)
Output Third Order Intercept Point (OIP3)	+59 dBm
Linear Gain	51 dB
Gain Flatness (over full band)	± .5 dB
Gain Change (over temperature)	± .5 dB
VSWR (Input/Output)	1.5:1 / 1.5:1
DC Input Voltage	+12 Volts
DC Input Current	6.0 Amperes (operational)
Mechanical Dimensions	6.0 x 2.5 x .56 inches
RF Connectors	SMA Female
Operating Temperature	0° 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)	-7 dBm (max.)
RF OUTPUT	Output Connector (SMA Female)	+ 41 dBm @ P1dB (min.)
GND	Ground Turret	---
FWD	Forward Power Detector	+ 34 dBm COFDM Output Power \approx + 4.0 Volts
+12VDC	DC Input Voltage	+ 12 Volts @ 6.0 Amperes. (operational)
ON/OFF	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On

Specifications subject to change without notice.