

Model SM2027-41LS

2000-2700 MHz 12.5 Watt Ultra-Linear Power Amplifier FOR BROADCAST APPLICATIONS

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



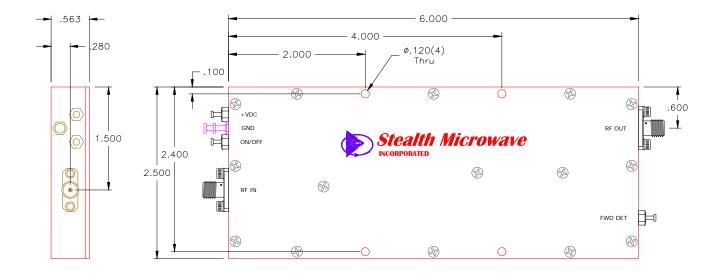
Parameter	Specification	
Frequency Range	2.0 – 2.7 GHz	
Pout (P1dB)	+41 dBm (min.)	
Output Third Order Intercept Point (OIP3)	+59 dBm	
Linear Gain	51 dB	
Gain Flatness (over full band)	± .5 dB	
Gain Change (over temperature)	± .5 dB	
VSWR (Input/Output)	1.5:1 / 1.5:1	
DC Input Voltage	+12 Volts	
DC Input 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	



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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.

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