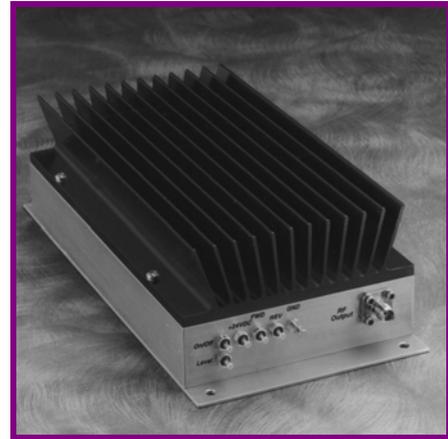


The **SM09296-45LD** is a solid state LDMOS amplifier designed for the Cellular/GSM telephony market. It is one of the smallest amplifiers in the industry to deliver a P1dB of 50 watts. The operating frequency is 925-960 MHz, and the linear gain is 55 dB with a gain flatness of ± 0.5 dB across the band. The unit operates off a single positive supply voltage of +28V, and draws approx. 7 A of current. The amplifier is available in modular form (standard), or as a 19" rack mount unit.



Features

- Mis-Match Protected
- Single Power Supply
- Level Control
- Over/Reverse Voltage Protection
- Thermal Protection with Auto Reset

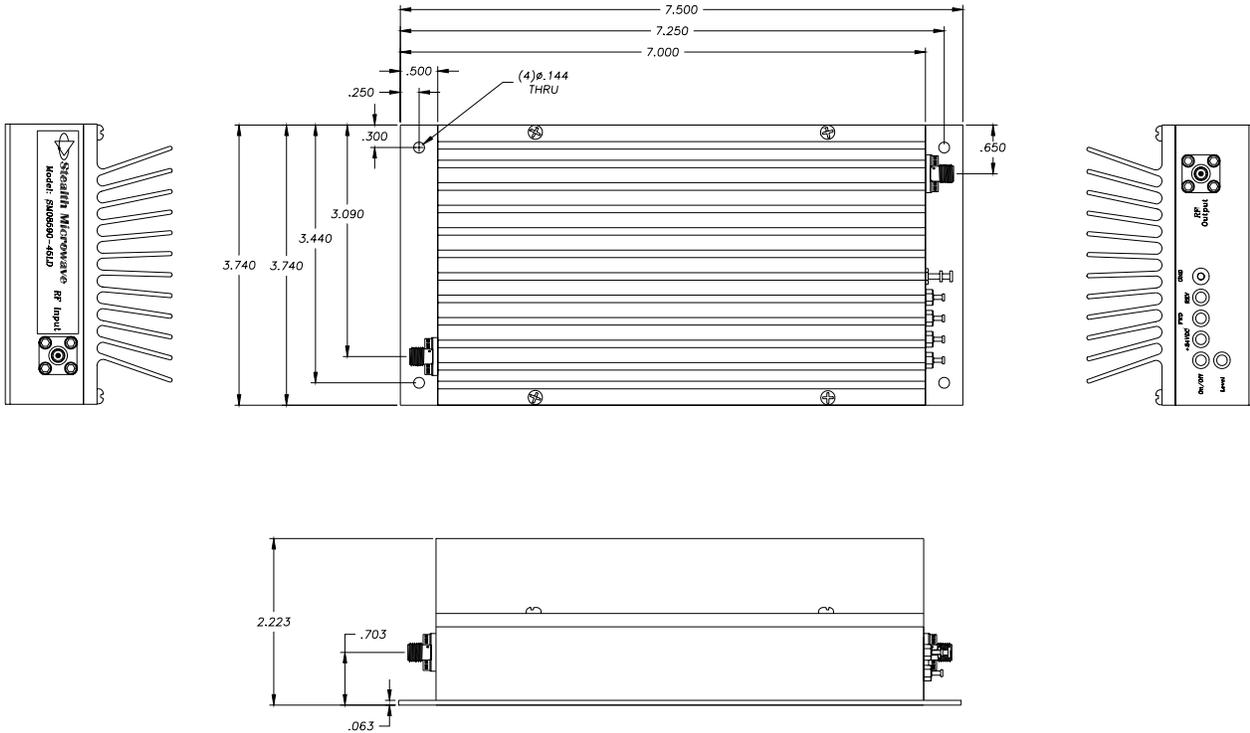
Options

- Forward/Reverse Power Detection
- Harmonic Filter
- Logic On/Off Control
- Integral Heatsink

Configurations

- Module
- 19" Rack

Parameter	Specification
Frequency Range	925 - 960 MHz
Pout (P1dB)	+ 47 dBm (min.)
Third Order Intercept Point	+ 64 dBm
Linear Gain	55 dB \pm 1 dB
Gain Flatness over Full Band	$\pm .5$ dB
Gain Change over Temperature	$\pm .5$ dB
Input/Output Return Loss	-16 dB / -16dB
DC Supply	+ 28 Volts @ 7 Amperes (4.8 Amperes Quiescent)
Level Control	32 dB
Harmonic Filter (Optional)	- 55 dBc
Mechanical Dimensions With Heatsink	7.5 x 3.7 x 2.2 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 (Female SMA)	- 4 dBm, typical
RF Output	Output Connector (Female SMA)	+ 47 dBm
GND	Ground Turret	---
REV	Reverse Power Detector	∞ VSWR @ + 45 dBm \approx + 5 Volts
FWD	Forward Power Detector	+ 47 dBm Output Power \approx + 5 Volts
+24VDC	DC Input Voltage	+ 28 Volts @ 7.0 Amperes (4.8 Amperes Quiescent)
On/Off	TTL Logic On/Off	0 Volts = Off, + 5 Volts = On
Level	Voltage Variable Attenuator (VVA)	0 Volts = 0 dB, + 5 Volts \geq - 32 dB

Specifications subject to change without notice.