

## **Model SM09195-45LDL**

917-950 MHz 30 Watt Linear Power Amplifier FOR GSM APPLICATIONS

The **SM08590-45LDL** is a 917-950 MHz, 30 W solid state LDMOS amplifier designed for the Cellular/GSM telephony market. Its compact size and ultra high linearity make it ideally suited for systems using CDMA, TDMA, or high dynamic range multi-carrier applications. Our proprietary pre-distortion technique enables us to provide an output third order intercept of +64 dBm. The linear gain is 50 dB with only  $\pm$  0.5 dB of gain change over the full temperature range of 0 to +55 °C.

The unit comes standard in modular form or as a rack mountable amplifier.

#### **Features**

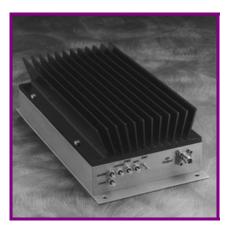
- Mis-Match Protected
- Built in linearizer increases the OIP3 by over 7 dB
- Temperature compensation
- Single Power Supply
- Over/reverse voltage protection
- Thermal protection with auto reset

#### **Options**

- Forward/reverse power detection
- Harmonic Filter
- Logic on/off control
- Heatsink available

#### **Configurations**

- Module
- 19" Rack



Parameter	Specification	
Frequency Range	917 - 950 MHz	
Pout (P1dB)	+ 45 dBm	
Third Order Intercept Point	+ 64 dBm	
Linear Gain	$50 \text{ dB} \pm 1 \text{ dB}$	
Gain Flatness over Full Band	± .5 dB	
Gain Change over Temperature	± .5 dB	
Input/Output Return Loss	-13 dB / -13dB	
DC Supply Voltage	+ 24 Volts	
DC Supply Current	5.0 Amperes (Varies per application)	
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	

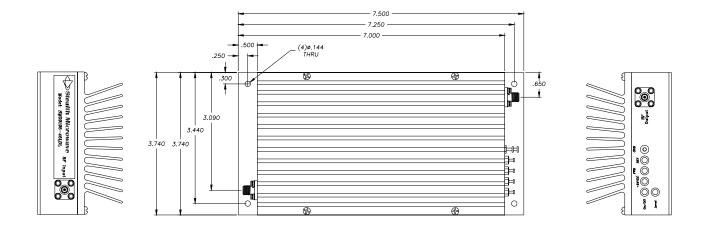
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

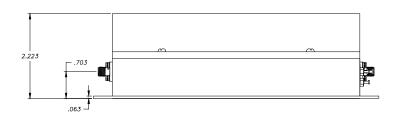


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### **DIMENSIONS IN INCHES**





Pin	Description	Values
RF Input	Input Connector (SMA Female)	- 4 dBm, typical
RF Output	Output Connector (SMA Female)	+45 dBm @P1dB
GND	Ground Turret	
REV	Reverse Power Detector	$\infty$ VSWR @ + 45 dBm $\approx$ + 5 Volts
FWD	Forward Power Detector	+ 45 dBm Output Power ≈ + 5 Volts
+24VDC	DC Input Voltage	+ 24 Volts @ 4.8 Amperes (typ.)
On/Off	TTL Logic On/Off	0  Volts = Off, +5  Volts = On

Specifications subject to change without notice.

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