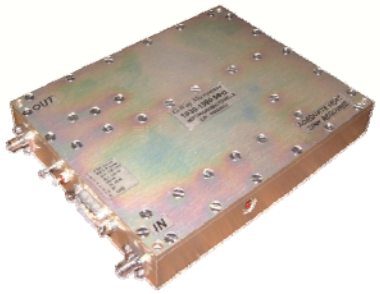
The **MP1960/60/10MK-A** is suitable for PCS Band CDMA high power linear applications The amplifier employs linear LDMOS power devices that provide significant linear output power, wide dynamic range, and high gain. This amplifier has an Automatic Level Control factory set level with a wide dynamic range, in order to meet FCC / IC and other standard spurious requirements around the globe.



Model: MP1960/60/40MK-A

1. Electrical Characteristics

Item	Value	Note
Frequency range	1930 ~ 1990 MHz	
Gain	50 ± 1 dB	
Gain Flatness	± 0.50 dB	Over Freq. Range
Gain Variation	± 1.0 dB	Over Temp. Range
Output Power	10W (+40dBm)	1 CDMA 9 FWD CH
Spurious Emission	-45 dBc @ ±750 kHz to 1.98 MHz offset from the carrier center frequency (RBW=30 kHz) -65 dBc @ ±1.98 MHz to 4 MHz offset from the carrier center frequency (RBW=30 kHz)	**Signal Source:** CDMA: 1.23 MHz symbol rate; Forward Link; 9 Channels @ 1FA
Input/Output VSWR	≤ 1.2	
Output VSWR		**Isolator Included**
Over Temperature Protection	Shutdown @ +85°C ± 5°C	
ALC ON/OFF	Enable: TTL Low Disable: TTL High	
ALC Level	ALC Setting Range >15 dB	Continuous Adjustable Range via Analog Voltage Input 0-5V
HPA Enable/Disable	TTL "0V or Open" ⇒ Enable TTL "5V" ⇒ Disable	
Forward Power Monitor	5.0 ± 0.2 V@ 10 Watts	RMS Detection
Reverse Power Monitor	5.0 ± 0.2 V@ 10 Watts	RMS Detection
DC Input Voltage / Current	+28 VDC ± 1V / 2.5A	DC Input Voltage / Current @ Pout 10W CDMA 1FA
Input/Output Impedance	50Ω	
Max. Input Power Without Damage	+10 dBm	**With ALC On**

2. Mechanical Characteristics

Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Holes Female	
DC Input	#8 Feed Through	
Dimensions	4.7" x 5.9" x 0.87"	
LED	LED Indicator	ALC On

Revision History			
REV	**Reason to Change**	**Date**	**Initialed by**

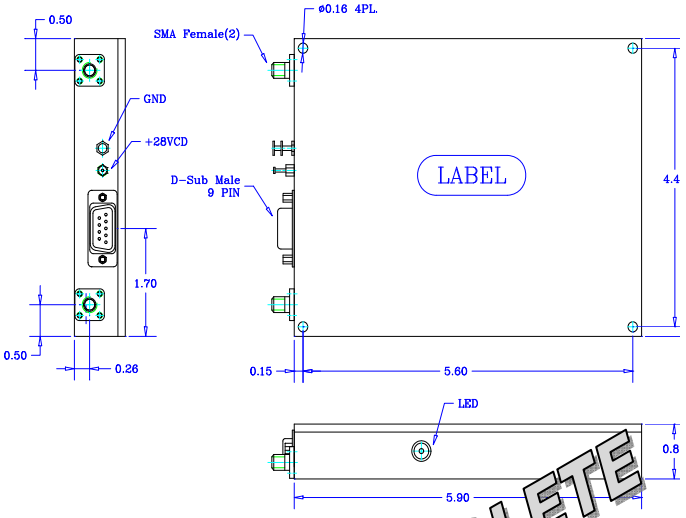
3. Environment Characteristics

Operating Temperature	-20°C ~ +70°C	Base Plate

4. DB9 Pin Description

1	Forward Power Monitor	
2	Reverse Power Monitor	
3	ALC On/Off	ALC ON = TTL Low ALC OFF = TTL High
4	ALC Level Input	0-5V
5	Enable/Disable	Enable: TTL Low or Open Disable: TTL High
6,7,8	N/C	
9	Ground	

5. Outline Drawing



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