



The **MP850/6/45SK-B1** is suitable for broadband high power linear applications. The amplifier employs linear LDMOS power devices that provide sufficient output power, wide dynamic range, and high gain. Amplifier is equipped with internal Automatic Level Control loop, enabling it to be set to an Output Power level with maximal linearity at specific Communication System component environment.

Model: MP850/6/45SK-B1

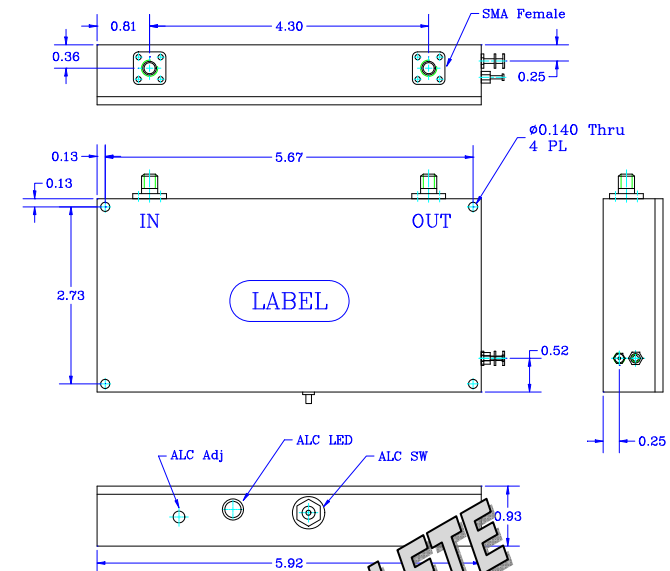
1. Electrical Characteristics		
Item	Value	Note
Frequency Range	700 ~ 1000 MHz	
Gain	45 ± 1dB	
Gain Flatness	ALC Off	Over Freq. Range
	ALC On	
	±1.0 dB (Max.)	±0.5 dB (Max.)
Gain Variation	± 1dB	Over Temp. Range
Output Power P1	+42 dBm (Typ.)	
Noise Figure	6 dB (Max.)	At full Gain
Output 3 rd Intercept Point	+ 52 dBm	2 tones @ +27 dBm output power, 1 MHz Spacing
Input / Output VSWR	≤ 1.2	Output Isolator Included
Harmonics	-40 dBc (Max.)	Pout @ P1 dB
Spurious	-70 dBc (Max.)	
ALC ON/OFF		Momentary Switch (Std) Toggle Switch (optional)
ALC Setting	0 – 5V (300 mV / dB)	Continuous Adjustable Range via Internal Pot.
DC Input Voltage	+28 VDC	
DC Input Current	1.6 A (Max.)	Pout @ +42 dBm
Thermal Shutdown	+85°C ± 5°C	Auto Recover @ +70°C ± 5°C
Input / Output Impedance	50 Ω	
Max. Input without Damage	+10 dBm	With ALC on

2. Mechanical Characteristics		
RF IN/OUT Connector	SMA 4 Holes – Female	
DC Input	#8 Feed-thru	
Dimensions	5.92” x 2.99” x 1”	
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
Cooling	External Heat-sink	
Humidity (Non-condensing)	95% (Max.)	

4. Outline Drawing



**PRODUCT OBSOLETE
SPECIAL ORDER ONLY**