



The MP500/800/300K-A is suitable for broadband low noise and linear power amplification. The amplifier employs GaAs E-pHEMT technology that provides wide dynamic range, low noise figure, excellent linearity and unconditional stability. Integrated ALC circuit provides over power protection and assurance of linear amplification. Product specifically designed to support Broad Band Driver applications for Fiber Transceivers.

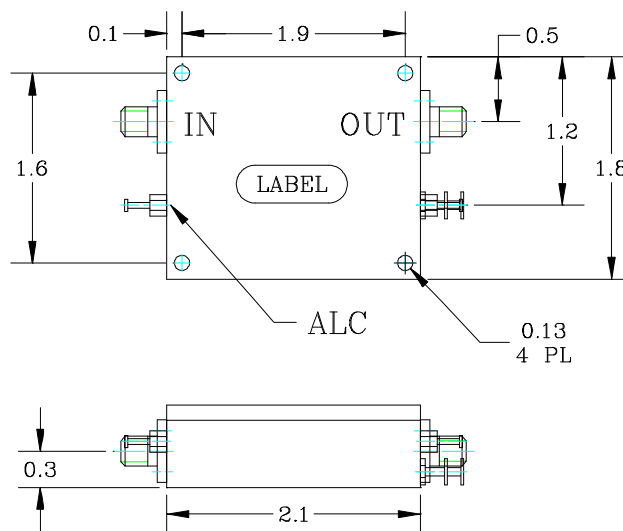


Model: MP500/800/300K-A

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	40 ~ 1000 MHz	
Gain	26 ± 1 dB	
Gain Flatness	± 0.5 dB	Over Freq. Range
Gain Variation	± 1.0 dB	Over Temp. Range
Output P1	+22 dBm (Typ.)	
Noise Figure	5.0 (Max.)	
Input / Output VSWR	1.3:1 (Max.)	
Output 3 rd Intercept	+42 dBm (Typ.)	Two tones @ +5 dBm per tone
Spurious	-70 dBc (Max.)	
ALC level Default Setting	+7 dBm	Adjustable per request
ALC Accuracy	± 0.5 dBm	
ALC ON Indication	TTL High: ALC ON	
DC Input Voltage/Current	+5 V / 0.20A (Typ.)	
Input / Output Impedance	50 Ω	
Max Input Power	0 dBm	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +80°C	Base Plate
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

4. Outline Drawing



2. Mechanical Characteristics		
RF IN/OUT	SMA 4 Holes – Female	4 – 40 screw
DC Input	#8 Feed-thru	
ALC Indication	#4 Feed-thru	
Dimensions	2.1" x 1.85" x 0.62"	

Revision History			
REV	Reason to Change	Date	Initialed by