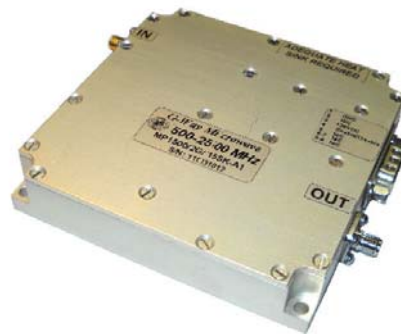




The MP1000/1G/10SK-A5 is a broadband and high power amplifier for 500-1500 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advanced GaN power devices that provide ample output power, good gain flatness over broad band, a wide dynamic range, and high efficiency.

Options with Forward/Reverse power detections are also available.

## Model: MP1000/1G/10SK-A5



1. Electrical Characteristics		
Item	Value	Note
Frequency Range	500 ~ 1500 MHz	
Power Gain	45 dB (Min.)	@ +40 dBm
Gain Flatness	± 1.5 dB (Typ.)	Over Frequency @ 10 Watt Output
Output Psat	+ 42 dBm (Min.)	
Input VSWR	2:1 (Max.)	
HPA Enable/Disable	TTL "Low or Open" → Enable TTL "High" → Disable	
Harmonics	-20 dBc (Max.)	Pout @ +37 dBm Output
Spurious	-70 (dBc)	Pout @ 10 Watts
Over Temperature Protection	Shutdown @ +85°C ±5°C	Auto Recover @ +70°C ±5°C
DC Input Voltage / Current	+28 VDC ± 1V / 1.8A (Max.)	DC Input Voltage / Current Pout @ 10 Watts CW
Efficiency	> 20%	Pout @ 10 Watts
Input /Output Impedance	50 Ω	
Max. Input Signal (without Damage)	+3 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Hole Female	
Dimensions	3.9" x 3.9" x 0.8"	
Weight	0.62 lb	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +80°C	Base Plate

Revision History			
REV	Reason to Change	Date	Initialed by
A	Final performance approved by customer	04/24/13	YZ

4. DB9-Male Pin Description		
1	GND	
2	NC	
3	+28 VDC	
4	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
5 ~ 9	NC	

## 5. Outline Drawing

