



The **MP1500/2G/01SK-CP-A1** is a broadband and high power amplifier for 500 ~ 2500 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 broadband, a wide dynamic range, and high efficiency. The product integrates a bi-directional coupler for monitoring Forward and Reverse Power.



**Model: MP1500/2G/01SK-CP-A1**

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	500 ~ 2500 MHz	
Power Gain	30 dB (Min.)	@ +30 dBm
Gain Flatness	± 2.0 dB (Typ.)	Over Frequency @ +30 dBm
Output Psat	+31 dBm (Min.)	
Harmonics	-15 dBc (Typ.)	Pout @ +30dBm
Spurious	-70 (dBc.)	Pout @ +30 dBm
Input VSWR	2:1 (Max.)	
HPA Enable/Disable	TTL "Low" ⇒ Enable TTL "High or Open" ⇒ Disable	
Over Temperature Protection	Shutdown @ +85°C ±5°C	Auto Recover @ +70°C ±5°C
Forward Power Monitor	2.0 ± 0.2 V@ 1 Watt	RMS Detection
Reverse Power Monitor	2.0 ± 0.2 V@ 1 Watt	RMS Detection
DC Input Voltage / Current	+28 VDC ± 1V / 0.35A (Typ.)	DC Input Voltage / Current @ Pout 1 Watts CW
Input /Output Impedance	50 Ω	
Input Max. without Damage	+5 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB9-Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Hole – Female	
Dimensions	3.9" x 3.9" x 0.8"	
Weight	0.64 lb	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +80°C	Base Plate
Operating Altitude	15,000 Feet (Min.)	
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

Revision History			
REV	Reason to Change	Date	Initialed by

4. DB9-Male Pin Description		
1	GND	
2	NC	
3	+28 VDC	
4	Enable / Disable	Enable: TTL Low Disable: TTL High
5	Reverse Power Detection	
6	Forward Power Detection	
7, 8, 9	N/C	

**5. Outline Drawing**

