



The MP900/600/44MK-A1 is a broadband and high power amplifier for 600-1200 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.



Model: MP900/600/44MK-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	600 ~ 1200 MHz	
Power Gain	45 dB (Min.)	@ +44 dBm
Gain Flatness	± 1.0 dB (Typ.)	Over Frequency @ 25 Watts Output
Output Psat	+44 dBm (Min.)	
Harmonics	-15 dBc (Typ.)	Pout @ 25 Watts
Spurious	-70 (dBc.)	Pout @ 25 Watts
Input VSWR	1.5:1 (Max.)	
HPA Enable/Disable	TTL "Low or Open" ⇒ Enable TTL "High" ⇒ Disable	
Over Temperature Protection	Shutdown @ +85°C ±5°C	Auto Recover @ +70°C ±5°C
DC Input Voltage / Current	+28 VDC ± 1V / 2.5A (Max.)	DC Input Voltage / Current @ Pout 25 Watts CW
Efficiency	> 35%	
Input /Output Impedance	50 Ω	
Input Max. without Damage	+3 dBm	
Load Conditions without Damage	6:1	Pout @ 25 Watts

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	0.64 lb	

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

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
5,6,7, 8, 9	N/C	

5. Outline Drawing

