



The MP1700/2G/50MK-A-R3U15 is a high power amplifier for 700 - 2700 MHz frequency band. The amplifier system employs GaN devices and provides high efficiency, broad band and high dynamic range, protected against over-temperature, over driving, over-power and excessive current draw. It provides remote control function via Ethernet and RS-232 interface for remote access and control. GUI control is provided.



Model: MP1700/2G/50MK-A-R3U15

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	700 ~ 2700 MHz	
Gain	50 dB (Min.)	
Gain Flatness	±1.0 dB	ALC Mode Over Freq. Range
Output Psat	+50 dBm (Min.)	
Input / Output VSWR	1.5:1 (Max.)	
Harmonics	-15 dBc (Max.)	@ 100 Watts Output
Spurious	-70 dBc (Max.)	@ 100 Watts Output
Efficiency	> 25%	@ 100 Watts Output
HPA Enable/Disable	Via GUI	
ALC Range	>25 dB	Set by GUI
ALC Accuracy	± 1 dBm	Over Frequency Band
Input Power Monitor	Real Time Monitoring	Via GUI
FWD Power Monitor	Real Time Monitoring	Via GUI
REV Power Monitor	Real Time Monitoring	Via GUI
Max RF Input	+25 dBm	With ALC Control
AC Input	100 – 240 VAC	
Input / Output Impedance	50 Ω	

2. Mechanical Characteristics		
Ethernet Interface	RJ-45	
RS232 Connector	DB9-Female	
RF IN/OUT Connector	N-Type Female	
Dimensions	19" x 3U x 15"	
Weight	25 lbs	

3. Environment Characteristics		
Operating Temperature	-10°C ~ +60°C	Ambient

4. Firmware Control		
Output Power Control	Real-Time Monitor	
Input Over Driving	>25 dBm	Shutdown Protection
Over-Power Protection	Setting	Shutdown Protection
VSWR Protection	Real-Time Monitor	Alarm
Current Monitor	Real-Time Monitor	Alarm
Temperature Monitor	Real-Time Monitor	Shutdown Protection
Operating Voltage	Real-Time Monitor	Shutdown Protection
Fan Current Monitoring	Real-Time Monitor	Alarm

Revision History			
REV	Reason to Change	Date	Initialed by

5. DB9-Female Pin Description		
1	N/C	
2	RS232 Rx	
3	RS232 Tx	
4	N/C	
5	GND	
6,7,8,9	NC	

6. Outline Drawing

