



The MP1300/200/50HK-R3U15 is an L-band high power amplifier system for various applications. The amplifier system supports signal amplification in the 1200~1400 MHz frequency range and is appropriate for CW/FM/PM/AM/Digital and/or Pulse modulations. The amplifier system is fed by AC 110/220VAC standard grid power, protected against over-temperature, load mismatch, over-power and excessive current draw. It provides remote control function via DB-9 connector and separate DB-9 connector for RS232 or RJ45 interface with GUI option. (Control Firmware Provided. Not applicable for Pulse applications.) Excellent choice for Lab and Controlled vibration and dust environment. Forced air cooling system.



Model: MP1300/200/50HK-R3U15
SKU# 1110001

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	1200 ~ 1400 MHz	
Gain	50 ± 1 dB (Typ.)	
Gain Flatness	± 1.0 dB (Max.)	Over Freq. Range
Power Output	+48 dBm (Typ.)	P Sat
Input / Output VSWR	1.6:1 (Max.)	
HPA Enable/Disable	TTL "0" V or Open" ⇒ Enable TTL "5" V ⇒ Disable	Pin 5 on DB9-Male
Over Temperature Shutdown (Inside Heat sink Temp)	+85°C ± 5°C	Auto recover @ +70°C ± 5°C
AC Input	100 – 240 VAC	
AC Current	2 Amps	@ 220 VAC
Input / Output Impedance	50 Ω	
Max. Input Without Damage	+5 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN Connector	SMA Female	
RF OUT Connector	N-Type Female	
-30dB Coupled Connector	SMA Female	
Dimensions	19" x 3U	

3. Environment Characteristics		
Operating Temperature	-20° C ~ +50° C	Ambient

Options Included:
 (R3U15), (FHR), (FPPS), (RM9), (12V1), (SMA/N), (SSPO), (SRR), (CONTR-P), (FPGA), (ETHER/RS232)

4. DB9-Male Pin Description		
1	N/C	
2	Current Monitor	Analog voltage relative to ID @ 50 mV / 100 mA
3	Temperature Monitor	Analog voltage relative to Module's Temp. @ 10 mV / °C
4	N/C	
5	Enable/Disable	0V or Open: Enable 5V: Disable
6-9	N/C	

5. Outline Drawing

