



The MP275/500/50MK-A-R2U15 is a high power amplifier system for 20 ~ 530 MHz frequency band. It supports FM, VHF &UHF applications. The amplifier system is protected against over-temperature, over-power and excessive current draw. It provides remote control function via RS232 and ETHERNET interface for remote access and control. GUI/Firmware control is provided.



Model: MP275/500/50MK-A-R2U15

Options: R2U15, CONTR, ETHER/RS232, IMP, 12V1, FFPS, FHR, SNB, N/N

1. Electrical Characteristics

Item	Value	Note
Frequency Range	20 ~ 530 MHz	
Gain	52 dB (Min.)	
Gain Flatness	±1.5 dB	Over Freq. Range
Output P1	+49 dBm (Min.)	
Output Psat	+51.5 dBm (Min.)	
Input / Output VSWR	1.5:1 (Max.)	
Output Protection		Via GUI
Spurious	-70 dBc	@ 100 Watts CW
Output 3 rd Intercept Point	+56 dBm (Typ.)	Two Tones @ +37 dBm per tone, 100 KHz Spacing.
Harmonics	-15 (Max.)	@ 80 Watts CW
HPA Enable/Disable		Set by GUI
ALC Range	>25 dB	Set by GUI
ALC Accuracy	±0.6 dB (Typ.)	
Input Power Monitor	Real Time Monitoring	Via GUI
FWD Power Monitor	Real Time Monitoring	Via GUI
REV Power Monitor	Real Time Monitoring	Via GUI
AC Input	100 – 240 VAC	Single Phase
Power Consumption	300 Watts (Max.)	@ 100 Watts CW
Max RF Input	+15 dBm	
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 2U x 15	
Weight	22 lbs	

3. Environment Characteristics

	Min.	Max.
Operating Ambient Temperature (°C)	-20	+55
Non-operating Temperature (°C)	-20	+85
Relative Humidity (% Non Condensing)		95
Altitude (Feet) MIL-STD-810F (Method 500.4, Proc I) (Designed to meet)	0	10,000'
Shock / Vibration per MIL-STD-810F (Designed to meet)	(Shock Method 516.5, Proc I) (Vibration Method 514.5, Proc I)	
Cooling	Internal Forced Fan From Front to Back	

Revision History

REV	Reason to Change	Date	Initialed By
	Initial Release	11/21/16	Y.Z

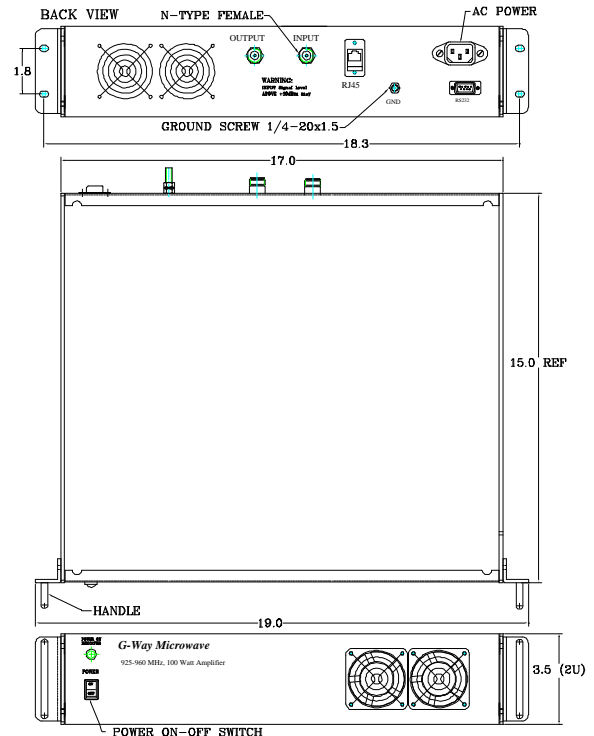
4. Firmware Control

Output Power Monitoring	Real Time; 21~50 dBm	Via GUI
Input Power Monitoring	Real Time; -10~19 dBm	Shutdown @ +15±0.5 dBm
Reverse Power Monitoring	Real Time; 21~50 dBm	Shutdown @ +47±1.0 dBm
Over-Driving Protection	Setting	Alarm
Current Monitoring	Real-Time	Shutdown @ 10.0 A
Temperature Monitoring	Real-Time; Above +0°C	Shutdown @ +75°C
Operating Voltage	Real-Time	Alarm
Fan Current Monitoring	Real-Time	Alarm

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



SKU # XXX-XXX