



The MP940/35/45MK-A9-R2U15 is a high power amplifier for 925 - 960 MHz frequency band and LNA for 880 -915 MHz. The amplifier system employs LDMOS 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 interface for remote access and control. GUI control is provided.



Model: MP940/35/45MK-A9-R2U15

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	Tx: 925 ~ 960 MHz	
Gain	38 dB (Min.)	
Gain Flatness	± 0.5 dB	ALC Mode Over Freq. Range
Output P1dB	+ 45 dBm (Min.)	
Output Psat	+ 46 dBm (Min.)	
Output IP3	+57 dBm (Min.)	2 tones @ +37 dBm Pout, 1 MHz Spacing
Input / Output VSWR	1.5:1 (Max.)	Isolator Included
Spurious	-70 dBc (Max.)	@ P1dB
HPA Enable/Disable		Via GUI
ALC Range	> 25 dB	Set by GUI
ALC Accuracy	± 0.5 dBm	Over Frequency Band
Max DL RF Input	+20 dBm	With ALC Control
Frequency Range	Rx: 880 ~ 915 MHz	
Gain	37 dB (Typ.)	
Input / Output VSWR	≤ 1.4	
Output P1dB	+ 18 dBm (Min.)	
Output IP3	+30 dBm (Min.)	2 tones @ 0 dBm Pout, 1 MHz Spacing
Noise Figure	2.5 dB (Max.)	
Max UL RF Input	+10 dBm	
Isolation Tx to Rx	120 dBc (Typ.)	
DC Input	+24 ~ +30 VDC	
Input / Output Impedance	50 Ω	

2. Mechanical Characteristics		
ETHERNET Interface	RJ-45 & RS232	
Tx IN/Rx Out Connector	SMA Female	
Tx OUT/Rx IN Connector	N-Type Female	
Dimensions	19" x 2U x 15"	
Weight	25 lb	

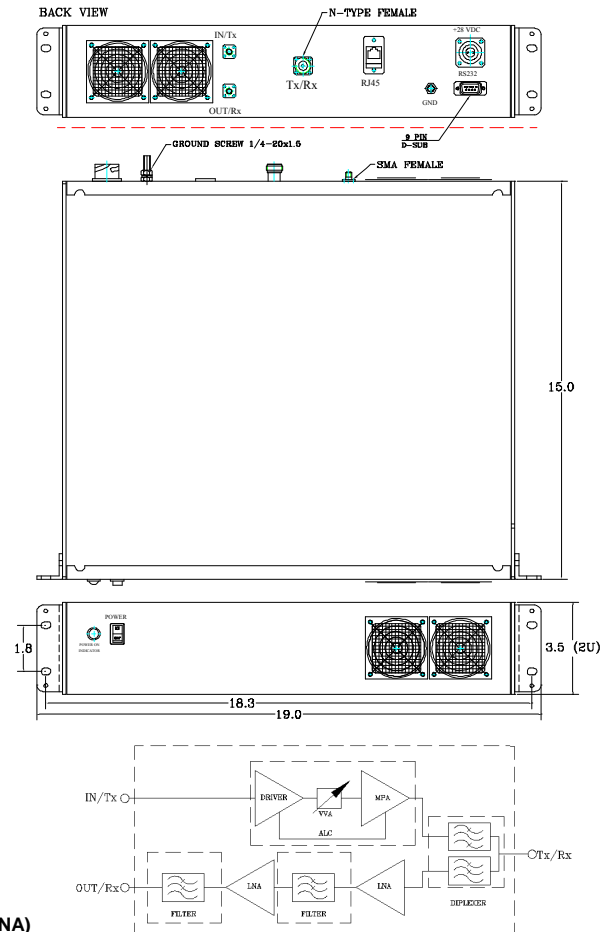
3. Environment Characteristics		
Operating Temperature	-20°C ~ +65°C	Ambient
Relative Humidity (%)	95%	(Non-Condensing)

Revision History			
REV	Reason to Change	Date	Initialed by
	Released to Production	12/13/17	Y.Z

SKU # 7400043

4. Firmware Control		
DL Output Power Control	Real Time; 16~45 dBm	Via GUI
DL Output Power Monitoring	Real Time; 16~45 dBm	Alarm
DL Input Power Monitoring	Real Time; -5~24 dBm	Shutdown @ +20 dBm
DL Reverse Power Monitoring	Real Time; 16~ 45 dBm	Shutdown @ +42 dBm
Over-Driving Protection	Setting	Alarm
Current Monitoring	Real-Time	Shutdown @ 8.0A
Temperature Monitoring	Real-Time, Above +0°C	Shutdown @ +70°C
Operating Voltage	Real-Time	Alarm
Fan Current Monitoring	Real-Time	Alarm

5. Outline Drawing



Options Included: (R2U15), (FHR), (DC1), (SMA/SMA/N), (SNB), (CONTR), (ETHER/RS232), (DPLX), (GUI), (IMP), (LNA)