



The MP1840/75/47MK-A9-R2U15 is a high power amplifier for 1805 - 1880 MHz frequency band. 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: MP1840/75/47MK-A9-R2U15

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	Tx: 1805 ~ 1880 MHz	
Gain	45 dB (Min.)	
Gain Flatness	± 0.5 dB	ALC Mode Over Freq. Range
Output P1dB	+ 47 dBm (Min.)	
Output Psat	+ 48 dBm (Min.)	
Output IP3	+58 dBm (Min.)	2 tones @ +40 dBm output power, 1 MHz Spacing
ACLR @ +37 dBm	- 45 dBc @ ±5 MHz offset from F0 (Max.) (RBW = 30 kHz) -55 dBc @ ±10 MHz offset from F0 (Max.) (RBW = 30 kHz)	Signal Source: WCDMA: 1FA Test Mode 1: 64 DPCH
Input / Output VSWR	1.4:1 (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
Frequency Range	Rx: 1710 ~ 1785 MHz	
Insertion Loss	2 dB (Max.)	
Input / Output VSWR	≤ 1.4	
Isolation Tx to Rx	120 dBc (Min.)	
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	
Tx IN/Rx Out Connector	SMA Female	
Tx OUT/Rx IN Connector	N-Type Female	
Dimensions	19" x 2U x 15"	
Weight	25 lb	

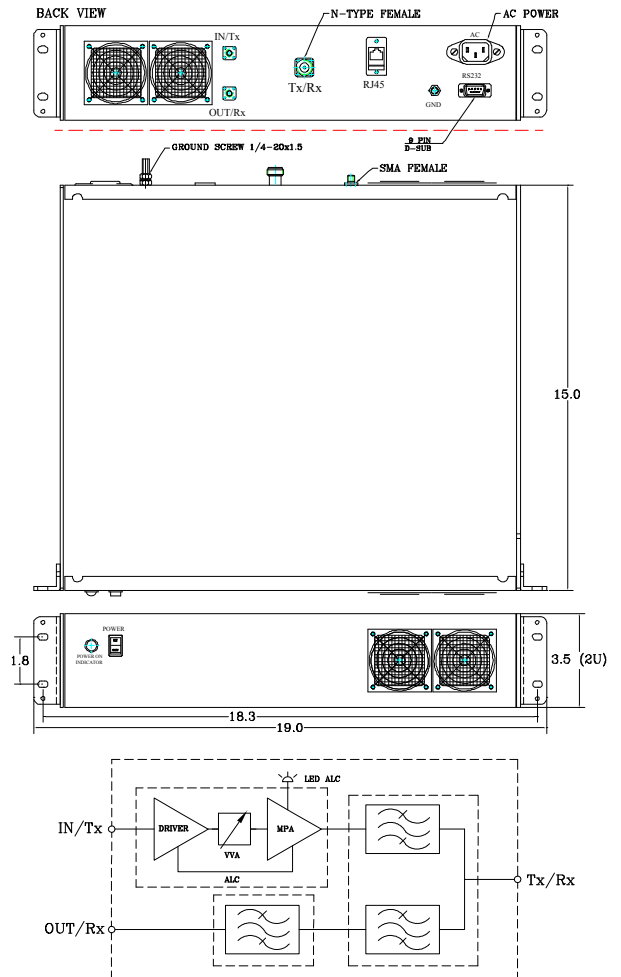
3. Environment Characteristics		
Operating Temperature	-20°C ~ +65°C	Ambient
Relative Humidity (%)	95%	(Non-Condensing)

Revision History			
REV	Reason to Change	Date	Initialed by

Options Included:
(R2U15), (FPPS), (12V1), (SMA/SMA/N), (SNB), (CONTR), (ETHER), (DPLX)

4. Firmware Control		
Output Power Control	Real Time; 20~47 dBm	Via GUI
Output Power Monitoring	Real Time; 19~48 dBm	Alarm
Input Power Monitoring	Real Time; -5~24 dBm	Shutdown @ +20 dBm
Reverse Power Monitoring	Real Time; 19~ 48 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



SKU # 7XXXXXX