The **MP881.5/25/40SK-A1-R2U15** is a high power amplifier for 869 - 894 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: MP881.5/25/40SK-A1-R2U15

1. Electrical Characteristics

Item	Value	Note
Frequency Range	**Tx: 869 ~ 894 MHz**	
Gain	45 dB (Min.)	
Gain Flatness	± 0.5 dB	ALC Mode Over Freq.
Output P1dB	+ 40 dBm (Min.)	
Output Psat	+ 41 dBm (Min.)	
Output IP3	+52 dBm (Min.)	2 tones @ +33 dBm output power, 1 MHz Spacing
ACLR @ +30 dBm	- 45 dBc @ ±5 MHz offset from F0 (Max.) (RBW = 30 kHz)	**Signal Source:** WCDMA: 1FA Test Mode 1: 64 DPCH
	-55 dBc @ ±10 MHz offset from F0 (Max.) (RBW = 30 kHz)	
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: 824 ~ 849 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	
Power Consumption	100 watts (Max.)	
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	-20ºC ~ +65ºC	Ambient
Relative Humidity (%)	95%	(Non-Condensing)

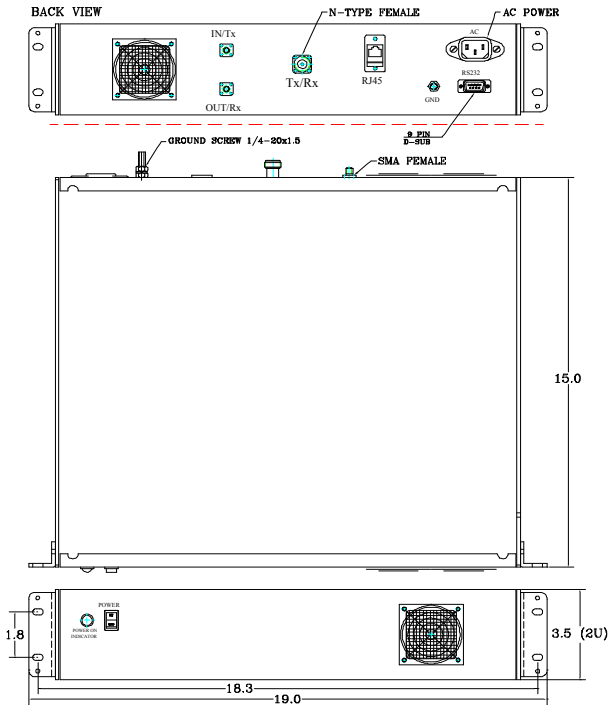
Revision History

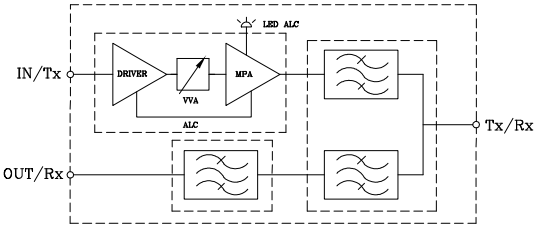
REV	Reason to Change	Date	Initialed by

4. Firmware Control

Output Power Control	Real Time; 10~33 dBm	Via GUI
Output Power Monitoring	Real Time; 10~39 dBm	Alarm
Input Power Monitoring	Real Time; -5~25 dBm	Shutdown @ +25 dBm
Reverse Power Monitoring	Real Time; 10~ 39 dBm	Shutdown @ +36 dBm
Over-Driving Protection	Setting	Alarm
Current Monitoring	Real-Time	Shutdown @ 2.0 A
Temperature Monitoring	Real-Time, Above +0ºC	Shutdown @ +70ºC
Operating Voltage	Real-Time	Alarm
Output Power Control	Real Time; 10~33 dBm	Via GUI

5. Outline Drawing





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

SKU # 7XXXXXX

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