



The MP3100/800/53HK-A-R2U17 is a high power amplifier system for 2700 ~ 3500 MHz frequency band. It utilized advance GaN technology for best efficiency. Support CW and Pulse signal. The amplifier system is protected against over-temperature.

Model: MP3100/800/53HK-A-R2U17

Options: R2U15, FHR, FPPS, 12V1, SSPO, SNB, N/N



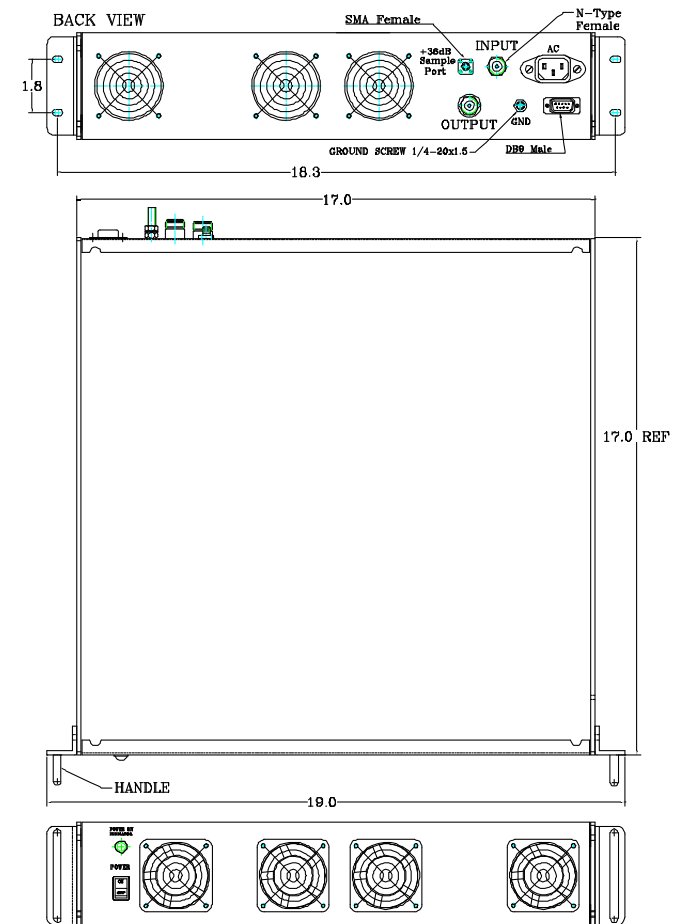
1. Electrical Characteristics		
Item	Value	Note
Frequency Range	2700 ~ 3500 MHz	
Gain	54 dB (Min.)	Pout @ 200 Watts
Gain Flatness	±1.5 dB (Typ.)	Over Freq. Range
Output Psat	+53 dBm (Min.)	
Pulse Signal Droop	1.0 dB (Max.)	Pulse Width: 1 - 500µS Duty Cycle: 1 - 20%
Pulse Signal PRF	50 KHz ~ 200Hz	
Input / Output VSWR	1.8:1 (Typ.)	
2 nd /3 rd Harmonics	-40 dBc (Max.)	Pout @ 200 Watts
Spurious	-70 dBc	Pout @ 200 Watts
Enable/Disable	TTL "0V or Open" ⇒ Enable TTL "5V" ⇒ Disable	Pin 5 On DB-9
FWD Power Monitor	Via Sample Port	36 dB +/-1 Coupler
AC Input	100 – 240 VAC	Single Phase
Power Consumption	800 W (Max.)	Pout @ 200 Watts
Max RF Input	+15 dBm	
Temperature Monitor	V _t + 500 mV, 10 mV /°C	Pin 2 On DB-9
Thermal Shutdown	Base Plate @ +85°C ± 5°C	Auto Recover @ +80°C ± 5°C
Current Monitor	100mV/A	Pin 3 On DB-9
Input / Output Impedance	50 Ω	
VSWR Protection		Isolator
Load Mismatch	∞:1	@ all load phase

2. Mechanical Characteristics		
RF IN/OUT Connector	N-Type Female	
Sample Port	SMA Female	36 dB +/-1 Coupler
Dimensions	19" x 2U x 17"	
Weight	33 lbs (15Kg)	

3. Environment Characteristics		
	Min.	Max.
Operating Ambient Temperature (°C)	-20	+50
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	

4. DB9-Male Pin Description		
1	N/C	
2	Temperature Monitor	
3	Current Monitor	
4	N/C	
5	Enable/ Disable	
6, 7	NC	
8, 9	GND	

5. Outline Drawing



Revision History			
REV	Reason to Change	Date	Initialed By
A	Harmonic and Pulse info added.	03/15/17	Y.Z
	Released to production	05/31/17	Y.Z

SKU # 1300039