



The MP3300/400/47MK-A is a broadband and high power amplifier for 3100-3500 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advanced LDMOS power devices that provide ample output power, good gain flatness over specified band, a wide dynamic range, and high efficiency.

## Model: MP3300/400/47MK-A



1. Electrical Characteristics		
Item	Value	Note
Frequency Range	3100 ~ 3500 MHz	
Gain	47 dB (Min.)	
Gain Flatness	± 1.0 dB (Max.)	Over Freq. Range
Output Power P1	+47 dBm (Min.)	
Output Power Psat	+48 dBm (Min.)	
Input / Output VSWR	≤ 1.5	Output Isolator Included
Output IP3	+57 dBm (Typ.)	@ +37 dBm/Tone, 1 MHz Spacing
Harmonics	-40 dBc (Max.)	Pout @ +47 dBm
Spurious	-70 dBc (Max.)	Pout @ +47 dBm
HPA Enable/Disable	TTL "0V or Open" ⇒ Enable TTL "5V" ⇒ Disable	
Current Sensor	10mV/100mA	Pin 3
Temperature Sensor	Vt + 500mV, 10mV/C°	
DC Input Voltage / Current	+28 VDC ± 2V / 5.8 A (Max.)	Pout @ +47 dBm
Input / Output Impedance	50 Ω	
Input Max without Damage	+5 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Holes Female	
DC Input	Pin 6,7 on DB-9	
Dimensions	6.4" x 3.98" x 1.0"	

Revision History			
REV	Reason to Change	Date	Initialed by
	Released to production	01/23/17	Y.Z.

3. Environment Characteristics		
Operating Temperature	-20°C ~ +70°C	Base Plate
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

4. DB9 Pin Description		
1, 2	NC	
3	Current Sensor	
4	Temperature Sensor	
5	Enable / Disable	Enable: TTL Low or Open Disable: TTL High
6, 7	+28V	
8, 9	Ground	

## 5. Outline Drawing

