



The MP4000/4G/300K-A1 is a broadband driving amplifier for 2000-6000 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advance GaAs MEFET devices that provide a wide dynamic range, broadband, and high efficiency.



Model: MP4000/4G/300K-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	2000 ~ 6000 MHz	
Gain	33 dB (Min.)	Pin 25 Vag = 0V
Gain Flatness	± 1.0 dB (Typ.)	
	± 0.6 dB (Max.) Over 100 MHz	
	± 0.8 dB (Max.) Over 500 MHz	
Gain Variation	± 0.35 dB	10°C Change
Output Power P1	+30.0 dBm (Min.)	
Output Power Psat	+31.0 dBm (Min.)	
Input VSWR	2:1 (Max.)	
Noise Figure	12 dB (Max.)	Pin 25 Vag = 0V @ +25°C
VVA Control Voltage/Current	0 ~ 5V/ 1mA 0V: Maximum Gain 5V: Minimum Gain	Pin 25
VVA Control Range (Vag)	30 dB (Min.)	Linear in dB
Enable/Disable Control Voltage/Current	TTL High: +3 ~ 5V TTL Low : 0 ~ 0.8V Current : 0.5 mA (Max.)	
Enable/Disable	TTL "High or Open": Enable TTL "Low": Disable	Pin 12 on DB-25
Isolation in Disable Mode	50 dB (Min.)	Pin 12 TTL Low
DC Input	+15 VDC	
DC Current	0.9 A (Max.)	
In/Output Impedance	50 Ω	
Max. Input without Damage	+15 dBm	

2. Mechanical Characteristics		
RF IN/OUT Connector	SMA Female	
DC Input	Pin 23 on DB-25	
Dimensions	3.3" x 5.0" x 0.85"	
Weight	0.6 lb	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +70°C	Base Plate
Storage Temperature	-40°C ~ +85°C	
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

Revision History			
REV	Reason to Change	Date	Initialed by
A	Specs reflect actual performance	04/29/14	Y.Z.

4. DB25-Male Pin Description		
1 ~ 9	NC	
10	GND	
11	NC	
12	Enable/Disable	Enable: TTL High or Open Disable: TTL Low
13 ~ 22	NC	
23	+15 VDC	
24	GND	
25	VVA Control	0V: Maximum Gain 5V: Minimum Gain

5. Outline Drawing

