



The MP5500/1000/40MK-A is a broadband driving amplifier for 5000 - 6000 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advance GaN devices that provide a wide dynamic range, broadband, and high efficiency.

PHOTO NOT AVAILABLE

Model: MP5500/1000/40MK-A

1. Electrical Characteristics

Item	Value	Note
Frequency Range	5000 ~ 6000 MHz	
Power Gain	40 dB (Min.)	Pout @ +40 dBm
Gain Flatness	± 1.5 dB (Typ.)	
Output Power Psat	+40.0 dBm (Min.)	
Input VSWR	2:1 (Max.)	
Spurious	-70 dBc (Max.)	
Harmonics	-40 dBc (Max.)	Pout @ +40 dBm
VVA Control Voltage/Current	0 ~ 5V 0V: Maximum Gain 5V: Minimum Gain	Pin 4
VVA Control Range	30 dB (Min.)	Linear in dB
Enable/Disable	TTL "Low or Open": Enable TTL "High": Disable	Pin 5
Forward Power Monitor	2.4 ± 0.2 V @ +40 dBm	RMS Detection @ Pin 1
Reflect Power Monitor	2.4 ± 0.2 V @ +40 dBm	RMS Detection @ Pin 2
Temperature Monitor	Vt +500mV, 10mV/C°	Pin 3
DC Input	+28 VDC	
DC Current	1.5 A (Max.)	
In/Output Impedance	50 Ω	
Max. Input Signal (without Damage)	+5 dBm	

2. Mechanical Characteristics

RF IN/OUT Connector	SMA Female	
DC Input	Pin 6,7 on DB-9	
Dimensions	2.8" x 5.9" 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
	Initial Release	03/18/15	Y.Z.

4. DB9-Male Pin Description

1	Forward Power Monitor	
2	Reverse Power Monitor	
3	Temperature Sensor	
4	VVA Control	
5	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
6, 7	+28 VDC	
8, 9	GND	

5. Outline Drawing

