



MP5500/800/37MK-A3 is a broadband driving amplifier for 5100 ~ 5900 MHz frequency band. It is suitable for Jamming or communication operation. Amplifier employs advanced GaN devices that provide a wide dynamic range, broadband, and high efficiency.

Model: MP5500/800/37MK-A3



1. Electrical Characteristics		
Item	Value	Note
Frequency Range	5100 ~ 5900 MHz	
Power Gain	37 dB (Min.)	Pout @ +37 dBm
Gain Flatness	± 1.0 dB (Max.)	@ 0 dBm Input
Output Power Psat	+37.0 dBm (Min.)	
Input VSWR	2:1 (Max.)	
Spurious	-70 dBc (Max.)	
Harmonics	-40 dBc (Max.)	Pout @ +37 dBm
Enable/Disable	TTL "Low or Open": Enable TTL "High": Disable	Pin 5
Temperature Monitor	Vt +500mV, 10mV/°C	Pin 3
DC Input	+28 VDC	
DC Current	1.0 A (Max.)	Pout @ +37 dBm
In/Output Impedance	50 Ω	
Max. Input Signal (Without Damage)	+5 dBm	
Load Conditions	∞ : 1	Output Isolator Included

2. Mechanical Characteristics		
RF IN/OUT Connector	SMA Female	
DC Input	Pin 6, 7 on DB-9	
Dimensions	2.8" x 3.98" x 0.96"	
Weight	0.6 lb	

3. Environment Characteristics		
Operating Temperature	-30°C ~ +70°C	Base Plate
Storage Temperature	-40°C ~ +85°C	
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	Designed to meet: IAW MIL-STD-810F
Operating Altitude	< 30,000 Feet	
Vibration and Shock	Vibration 6.06 gRMS	Designed to meet: IAW MIL-STD-810F

Revision History			
REV	Reason to Change	Date	Initialed by
	Production Approved	02/07/2020	YZ

4. DB9-Male Pin Description		
1, 2	NC	
3	Temperature Sensor	
4	NC	
5	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
6, 7	+28 VDC	
8, 9	GND	

5. Outline Drawing

