



The **MP50/100/01SK-A1** is suitable for 100KHz to 100MHz amplification. The amplifier employs linear GaN power devices that provide high efficiency, ample output power, wide dynamic range, and high gain.

## Model: MP50/100/01SK-A1

### 1. Electrical Characteristics

Item	Value	Note
Frequency Range	100 KHz ~ 100 MHz	
Power Gain	25 dB (Typ.)	Pout @ +30 dBm
Gain Flatness	± 1.0 dB (Max.)	Over Frequency Range
Noise Figure	3 dB (Max.)	N.F. below 10 MHz is extrapolated from Noise Floor measurements
Output Psat	+30 dBm (Min.)	
HPA Enable/Disable	TTL "Low or Open" ⇒ Enable TTL "High" ⇒ Disable	
Over Temperature Protection	Shutdown @ +85°C ± 5°C	Auto Recover @ +70°C ± 5°C
DC Input Voltage / Current	+15 VDC ± 1V / 0.3 A (Typ.)	DC Input Voltage / Current @ Pout @ 1 Watts CW
Input /Output Impedance	50 Ω	
Input Max. without Damage	+15 dBm	

### 2. Mechanical Characteristics

Monitoring Connectors	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Hole Female	
Dimensions	3.0" x 2.75" x 0.8"	
Weight	0.28 lb	

### 3. Environment Characteristics

Operating Temperature	-20°C ~ +80°C	Base Plate
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#### Revision History

REV	Reason to Change	Date	Initialed by

### 4. DB9-Male Pin Description

1	GND	
2	NC	
3	+15 VDC	
4	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
5	NC	
6	NC	
7, 8, 9	N/C	

### 5. Outline Drawing

