



The MP270/35/01SK-A1 is suitable for VHF and UHF linear amplification. The amplifier employs linear GaN power devices that provide high efficiency, ample output power, wide dynamic range, and high gain. The product integrates a bi-directional coupler for monitoring Forward and Reverse Power.



## Model: MP270/35/01SK-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	20 ~ 520 MHz	
Power Gain	38 (Min.)	Pout @ +30 dBm
Gain Flatness	± 2.0 dB (Max.)	Over Frequency Range
Gain Variation	± 1.0 dB	Over Temperature Range
Output Psat	+30 dBm (Min.)	
Input VSWR	1.3:1 (Max.)	
HPA Enable/Disable	TTL "Low or Open" ⇒ Enable TTL "High" ⇒ Disable	
Harmonics	-15 dBc (Typ.)	Pout @ +30 dBm
Forward Power Monitor	2.0 ± 0.2 V @ 1 Watts	RMS Detection
Reverse Power Monitor	2.0 ± 0.2 V @ 1 Watts	RMS Detection
Over Temperature Protection	Shutdown @ +85°C ± 5°C	Auto Recover @ +70°C ± 5°C
DC Input Voltage / Current	+28 VDC ± 1V / 0.2 A (Max.) +5 VDC / 0.15 A (Max.)	DC Input Voltage / Current @ Pout @ 1 Watts CW
Efficiency	25% (Min.)	
Input /Output Impedance	50 Ω	
Capable of Handling VSWR	6:1	
Input Max. without Damage	+0 dBm	

2. Mechanical Characteristics		
Monitoring Connectors	DB9-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

Revision History			
REV	Reason to Change	Date	Initialed by

4. DB9-Male Pin Description		
1	GND	
2	+5 VDC	
3	+28 VDC	
4	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
5	Reverse Power Detection	
6	Forward Power Detection	
7, 8, 9	N/C	

## 5. Outline Drawing

