



The MP270/10/37MK-A is a broadband high power amplifier system for VHF-UHF applications. The amplifier supports signal amplification in the 20-520 MHz frequency band. It is protected against over-temperature and excessive current draw.

Model: MP270/10/37MK-A

1. Electrical Characteristics

Item	Value	Note
Frequency Range	20 ~ 520 MHz	
Gain	40 dB (Min.)	
Gain Flatness	±1.5 dB	Over Freq. Range
VVA Range	25 dB (Min.)	
Output Psat	+37 dBm (Min.)	
Input / Output VSWR	2:1 (Max.)	
Spurious	-60 dBc (Max.)	
HPA Enable/Disable	TTL "0 V or Open" ⇒ Enable TTL "5 V" ⇒ Disable	
Temperature Sensor Output	10 mV/°C	
Current Sensor Output	275 mV/A	
HPA Switching ON/OFF Speed	1 μSec	
DC Input Voltage	15 V	
Current Consumption	2.5 A (Max.)	Pout @ +37 dBm
Input / Output Impedance	50 Ω	
Max RF Input	+5 dBm	

2. Mechanical Characteristics

Monitoring Connector	DB-9 Male	4 – 40 screw
RF Input Connector	SMA 4 Holes Female	
RF Output Connector	4 Holes N Female (or SMA)	
DC Input	Pin6 and Pin7 at DB9	
Dimensions	6.4" x 3.48" x 1.12"	

3. Environment Characteristics

Operating Temperature	-40°C ~ +70°C	Base Plate
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Revision History

REV	Reason to Change	Date	Initialed by

4. DB9 Pin Description

1	N/C	
2	Current Monitor	275 mV/Amp
3	Temperature Monitor	10 mV/°C
4	VVA Control	0-5V 0V: Gain Max 5V: Gain Min
5	Enable/Disable	0V or Open: Enable 5V: Disable
6,7	+15 V	
8,9	GND	

5. Outline Drawing

