



The MP500/1000/44SK-A1-N is a broadband high power amplifier for VHF-UHF/Cellular/GSM applications. This amplifier supports signal amplification in the 5-1000 MHz frequency band and is protected against over-temperature and excessive current draw.



Model: MP500/1000/44SK-A1-N

1. Electrical Characteristics

Item	Value	Note
Frequency Range	5 ~ 1000 MHz	
Gain	44 dB (Min.)	
Gain Flatness	±2.0 (Max.)	Over Frequency Range
VVA Range	25 dB (Min.)	
Output P1	+43 dBm (Typ.)	
Psat	+44 dBm (Min.)	
Input / Output VSWR	2:1 (Max.)	
Spurious & Oscillations	-70 dBc (Max.)	
2 nd Harmonics	-10 dBc (Max.)	@ 25 Watts Power Output
HPA Enable / Disable	TTL "0V or Open" ⇒ Enable TTL "5V" ⇒ Disable	Via Toggle Switch on Front panel
Efficiency	15% (Typ.)	@ 25 Watts Power Output
AC Input / Current	110 – 220 VAC / 1.6A / 0.80A	
Input / Output Impedance	50 Ω	
Max. Input Without Damage	+5 dBm	

2. Mechanical Characteristics

RF IN/OUT Connector	N-Type Female	
Weight	20.5 lb / 9.25 kg	
Dimensions	13.8" x 11.8" x 7.9"	

3. Environment Characteristics

Operating Temperature	-40°C ~ +70°C	Ambient
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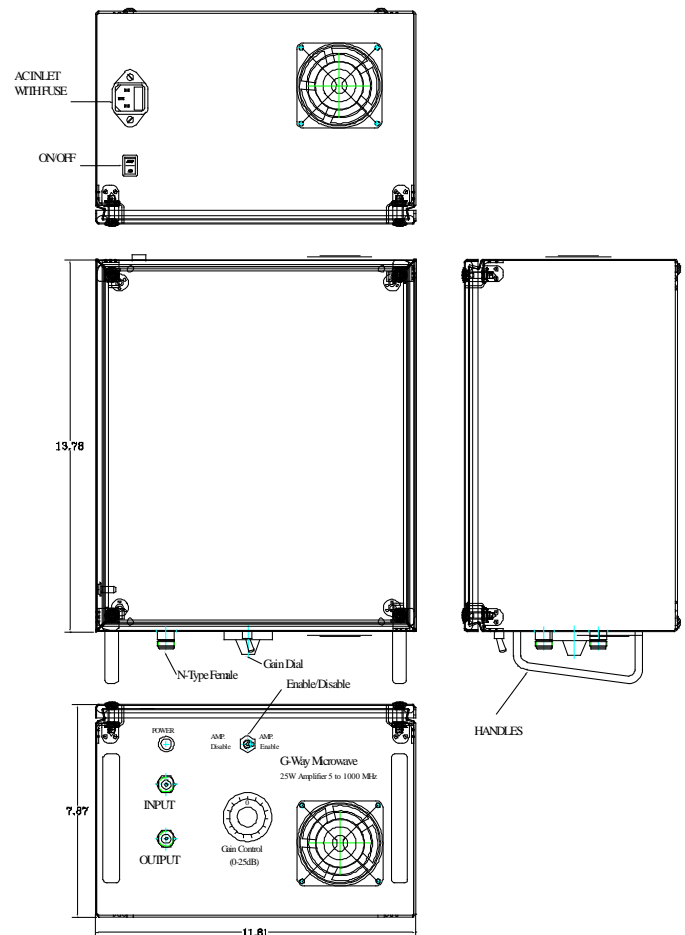
Revision History

REV	Reason to Change	Date	Initialed by
A	Released to Production	06/15/16	G. D.

4. DB9 Pin Description (NOT APPLICABLE)

1	N/C	
2	Current Monitor	100 mV / A
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	+28 V	
8, 9	GND	

5. Outline Drawing



SKU # 110-0034