The **MP5500/1000/37MK-A** is a broadband driving amplifier for 5000-6000 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advance GaN devices that provide a wide dynamic range, broadband, and high efficiency.

PHOTO NOT AVAILABLE

Model: MP5500/1000/37MK-A

1. Electrical Characteristics

Item	Value	Note
Frequency Range	5000 ~ 6000 MHz	
Power Gain	40 dB (Min.)	Pout @ +37 dBm
Gain Flatness	± 1.5 dB (Typ.)	
Output Power Psat	+37.0 dBm (Min.)	
Input VSWR	2:1 (Max.)	
Spurious	-70 dBc (Max.)	
Harmonics	-40 dBc (Max.)	Pout @ +37 dBm
VVA Control Voltage/Current	0 ~ 5V 0V: Maximum Gain 5V: Minimum Gain	Pin 4
VVA Control Range	30 dB (Min.)	Linear in dB
Enable/Disable	TTL "Low or Open": Enable TTL "High": Disable	Pin 5
Forward Power Monitor	2.4 ± 0.2 V @ +37dBm	RMS Detection at Pin 1
Reflect Power Monitor	2.4 ± 0.2 V @ +37 dBm	RMS Detection at Pin 2
Temperature Monitor	Vt +500mV, 10mV/C°	Pin 3
DC Input	+28 VDC	
DC Current	1.0 A (Max.)	
In/Output Impedance	50 Ω	
Max. Input without Damage	+5 dBm	

2. Mechanical Characteristics

RF IN/OUT Connector	SMA Female	
DC Input	Pin 6,7 on DB-9	
Dimensions	2.8" x 5.9" x 0.85"	
Weight	0.6 lb	

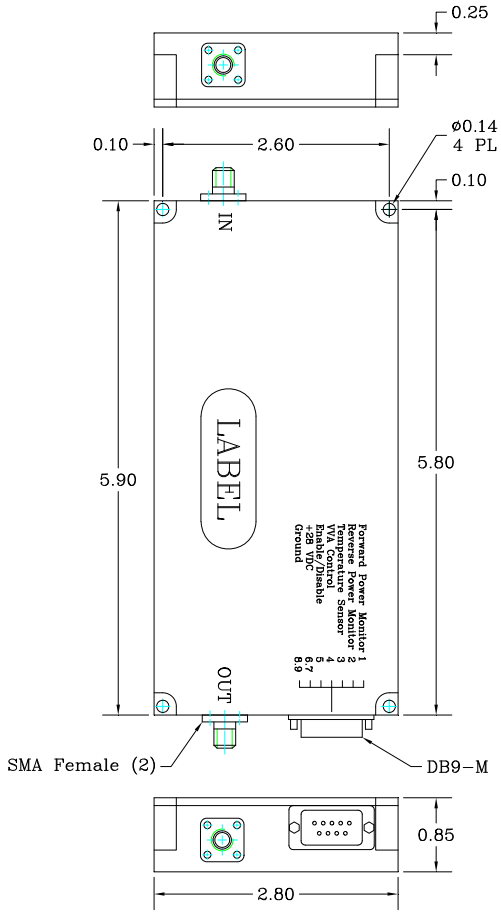
3. Environment Characteristics

Operating Temperature	-20°C ~ +70°C	Base Plate
Storage Temperature	-40°C ~ +85°C	
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

4. DB9-Male Pin Description

1	Forward Power Monitor	
2	Reverse Power Monitor	
3	Temperature Sensor	
4	VVA Control	
5	Enable / Disable	Enable: TTL "Low or Open" Disable: TTL "High"
6,7	+28 VDC	
8,9	GND	

5. Outline Drawing



Revision History			
REV	**Reason to Change**	**Date**	**Initialed by**

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