The **MP3100/800/49MK-A** is broadband high power amplifier that supports signal amplification in the 2700 ~ 3500 MHz frequency range. It is suitable for Jamming or communication operation. The amplifier employs advance GaN power devices that provide ample output power, a wide dynamic range, and high efficiency.

Model: MP3100/800/49MK-A

1. Electrical Characteristics

Item	Value		Note
Frequency Range	2700 ~ 3500 MHz		
Power Gain	33 (Min.)	36 (Max.)	@ +49 dBm
Gain Flatness	± 1.0 dB (Typ.)		Over Freq. Range
Power Output Psat	+49 dBm (Min.)		
Input / Output VSWR	≤ 1.5		**Output Isolator Included**
HPA Enable/Disable	**TTL "0 or Open" ⇒ Enable TTL "5V" ⇒ Disable**		#4 Feed thru
Spurious	-70 dBc (Max.)		
Harmonics @ +49 dBm	-35 dBc (Max.)		
DC Input Voltage / Current	+28 VDC ± 1V / 7.5A (Max.)		DC Input Voltage / Current Pout @ +49 dBm
Input / Output Impedance	50 Ω		
Max. Input Signal ***(No Damage)***	+18 dBm		

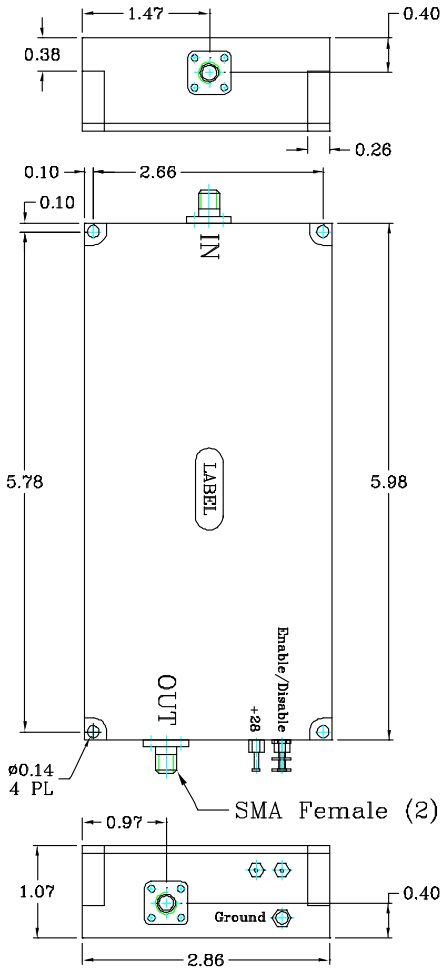
2. Mechanical Characteristics

RF IN /OUT Connector	SMA 4 Holes Female	
DC Input	#8-32 Feed Thru	
Enable/Disable	#4-40 Feed Thru	
Dimensions	5.98" x 2.86" x 1.07"	
Weight	1.2 lb	

3. Environment Characteristics

	Min.	Typ.	Max.
Operating Base Temperature (ºC)	-30		+70
Relative Humidity (%) *(Non Condensing)*			95
Altitude (Feet) MIL-STD-810F, (Method 500.4, Proc I) ***(Designed to meet)***			10,000'
Vibration per MIL-STD-810F (Designed to meet)	**(Vibration Method 514.4-AXVII, OUTDOOR) (Vibration Method 514.4-AXVII, INDOOR)**		
Shock per MIL-STD-810F ***(Designed to meet)***	**(Shock Method 516.5, Proc I) (Vibration Method 514.5, Proc I)**		

4. Outline Drawing



Revision History

REV	Reason to Change	Date	Initialed by
	Initial Release	05/05/17	Y.Z

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