The **MP883/40/20SK-A2** is a broadband and high power amplifier for 805-960 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advanced GaN power devices that provide ample output power, good gain flatness over broadband, a wide dynamic range, and high efficiency. The product integrates a bi-directional coupler for monitoring Forward and Reverse Power.

Model: MP883/40/20SK-A2

1. Electrical Characteristics

Item	Value	Note
Frequency Range	805 ~ 960 MHz	
Power Gain	43 dB (Min.)	@ +43 dBm
Gain Flatness	± 1.0 dB (Typ.)	Over Frequency @ 20 Watts Output
Output Psat	+43 dBm (Min.)	
Harmonics	-25 dBc (Typ.)	Pout @ 20 Watts
Spurious	-70 (dBc.)	Pout @ 20 Watts
Input VSWR	2:1 (Max.)	
HPA Enable/Disable	**TTL "Low or Open" ⇒Enable TTL "High " ⇒ Disable**	
Switching On/Off Time	≤ 5μs	
Over Temperature Protection	Shutdown @ +85°C ±5°C	Auto Recover @ +70°C ±5°C
Forward Power Monitor	2.0 ± 0.2 V@ 20 Watts	RMS Detection
Reverse Power Monitor	2.0 ± 0.2 V@ 20 Watts	RMS Detection
DC Input Voltage / Current	**+28 VDC ± 1V / 1.5A (Max.) +5V/ 0.15 A (Max.)**	DC Input Voltage / Current @ Pout 20 Watts CW
Efficiency	> 45%	
Input /Output Impedance	50 Ω	
Max. Input Signal ***(without Damage)***	+3 dBm	
Load Conditions without Damage	6:1	Pout @ 20 Watts

2. Mechanical Characteristics

Monitoring Connector	DB-9 Male	4-40 screw
RF IN/OUT Connector	SMA 4 Hole Female	
Dimensions	3.9" x 3.9" x 0.8"	
Weight	0.64 lb	

3. Environment Characteristics

Operating Temperature	-20°C ~ +80°C	Base Plate

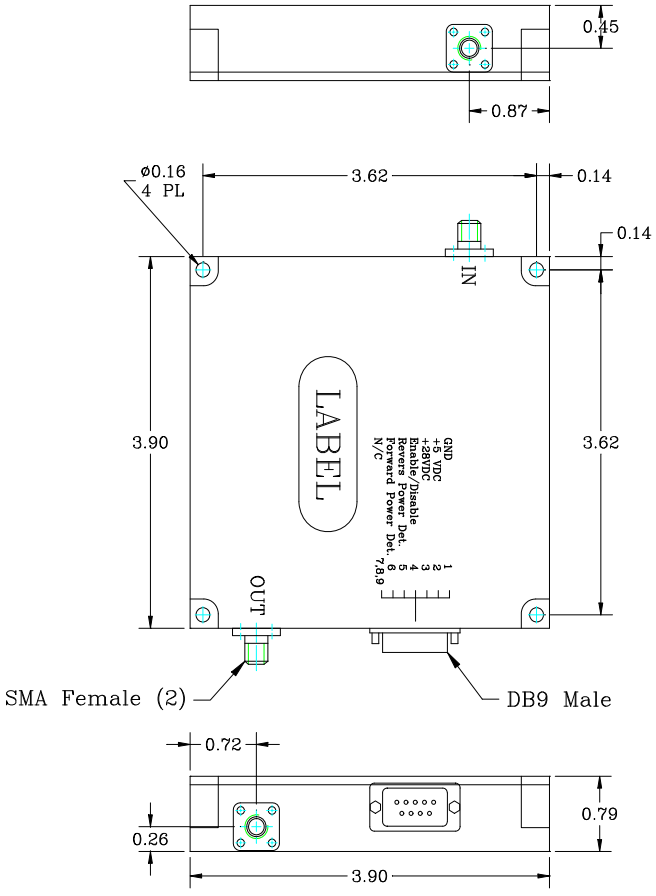
Revision History

REV	Reason to Change	Date	Initialed by
	Released for Production	3/20/12	YZ
A	Add switching on/off time.	1/22/15	YZ

4. DB9-Male Pin Description

1	GND	
2	+5V	
3	+28 VDC	
4	Enable / Disable	Enable: TTL Low Disable: TTL High
5	Reverse Power Detection	
6	Forward Power Detection	
7, 8, 9	N/C	

5. Outline Drawing



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