



The MP2450/100/45MK-A1 is suitable for 2.4-2.5 GHz high power, linear applications, and supports Wi-Max & LTE. The amplifier is designed for both TDD & FDD modulations. This amplifier employs linear LDMOS power devices that provide ample output power, wide dynamic range, and excellent gain flatness. Band Pass and Low Pass filters are included into the module to improve Selectivity and Harmonic responses.



Model: MP2450/100/45MK-A1

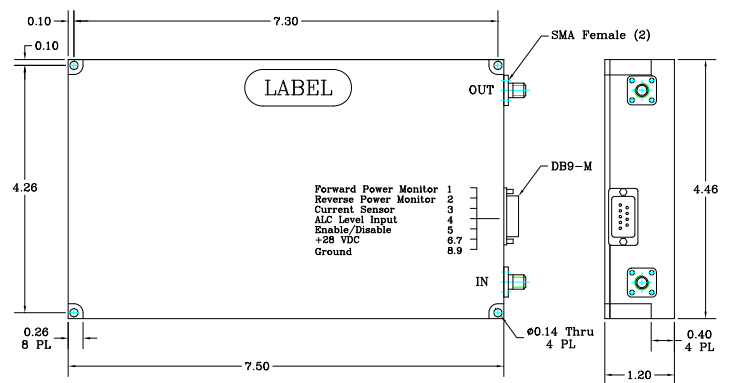
1. Electrical Characteristics		
Item	Value	Note
Frequency Range	2400 ~ 2500 MHz	
Operating Bandwidth	100 MHz	
Frequency Response	-1 dB Pass Band: 100 MHz (Min.)	Over Pass Band Frequency Range
	Rejection: 250 MHz Offset from 2450 MHz 60 dBc (Min.)	
Gain	46 dB ± 1.0 dB	30 Watts Output
Gain Flatness	± 0.5 dB (Max.)	Over Pass Band Frequency Range
Output Psat	+44.8 dBm (Min.)	
Reverse Power Handling	+45 dBm (Min.)	
Input / Output VSWR	1.5:1 dB (Max.)	
Output VSWR	Isolator Included	
Noise Figure	5 dB (Max.)	
HPA Enable / Disable	TTL "Low" or "Open" Enable TTL "High" ⇒ Disable	
Switching On/Off @ 90% Rise/Fall Time	≤ 2µs	
Forward Power Monitor	4.0 ± 0.1V @ +44.8 dBm	RMS Detection at Pin 1
Reverse Power Monitor	4.0 ± 0.1V @ +44.8 dBm	RMS Detection at Pin 2
Current Sensor	100mV/A	Pin 3
ALC Level Input	0-5 V	Pin 4
ACL Range	> 20 dB	
ALC Accuracy	± 0.5 dBm (Max.)	
DC Input Voltage / Current	+28VDC ± 1V / 3.4A (Max.)	DC Input Voltage / Current @ CW Pout @ +44.8 dBm
Max. CW Input (Without Damage)	+10 dBm	
Input / Output Impedance	50 Ω	
DC Input Protection	With Voltage Limit Diode	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF INPUT Connector	SMA Female	
RF OUTPUT Connector	SMA Female	
DC Input	DB-9 Male	Pin 6, 7
Dimensions	7.5" x 4.46" x 1.20"	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +70°C	Base Plate

4. DB9 Pin Description		
1	Forward Power Monitor	0 – 4.0 V
2	Reverse Power Monitor	0 – 4.0V
3	Current Sensor	
4	ALC Level Input	
5	Enable / Disable	Enable: TTL Low Disable: TTL High
6, 7	+28 VDC	
8, 9	GND	

5. Outline Drawing



Revision History			
REV	Reason to Change	Date	Initialed by
	Initial Release	02/15/16	Y.Z.