



The MP350/10/45MKP-A is high power amplifier for 350 MHz frequency band. The amplifier employs advance LDMOS power devices that provide ample output power, wide dynamic range and high efficiency. Output isolator is included.



Model: MP350/10/45MKP-A

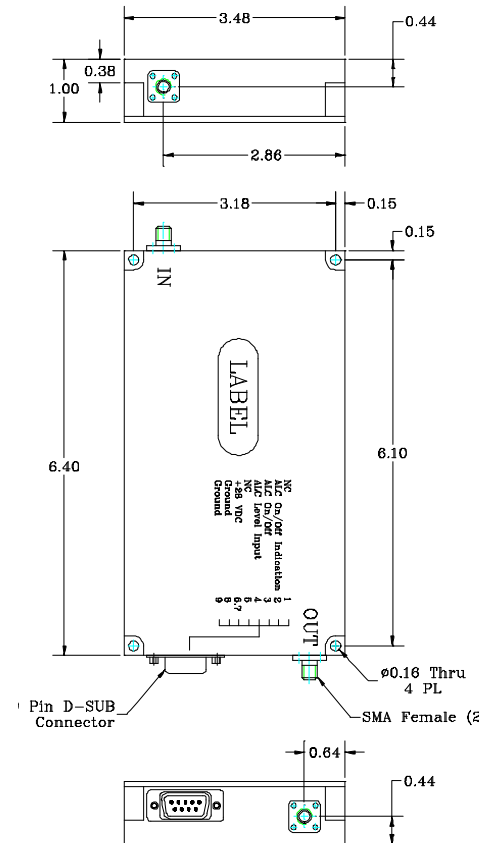
1. Electrical Characteristics		
Item	Value	Note
Frequency Range	345 ~ 355 MHz	
Power Gain	45 ± 1.0 dB	
Gain Flatness	± 0.5 dB (Max.)	Over Freq. Range
Output Power P1	+44 dBm (Min.)	Pulse Signal: PW = 140 μS, DC = 8%
Output Power Psat	+45 dBm (Min.)	Pulse Signal: PW = 140 μS, DC = 8%
Input / Output VSWR	1.5:1 (Max.)	Isolator Included
Harmonics	-40 dBc (Typ.)	Pout @ +44 dBm
Spurious	-70 dBc (Max.)	Pout @ +44 dBm
Enable/Disable	TTL "0V or Open" ⇒ Enable TTL "5V" ⇒ Disable	
VVA Control	0-5V 5V: Max. Gain 0V: Max. Attenuation	Via Pin 4
VVA Range	25 dB (Min.)	
DC Input	28VDC ± 2V	
Efficiency	> 45%	Pout @ +44 dBm
In/Output Impedance	50 Ω	
Max. Input Power without Damage	+5 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Holes Female	
DC Input	Pin 6,7 on DB-9	
Dimensions	6.4" x 3.48" x 1.0"	
Weight	1.6 lb	

3. Environment Characteristics		
Operating Temperature	-20°C ~ +85°C	Base Plate
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

4. DB9 Pin Description		
1, 2, 3	NC	
4	VVA Control	
5	Enable / Disable	Enable: TTL Low or Open Disable: TTL High
6, 7	+ 28V	
8, 9	Ground	

5. Outline Drawing



Revision History			
REV	Reason to Change	Date	Initialed by