



The WMP2350/700/50MK-A is a broadband high power amplifier that supports signal amplification in the 2000 ~ 2700 MHz frequency range. It is suitable for Jamming or communication operation. The amplifier employs advanced GaN power devices that provide ample output power, a wide dynamic range, and high efficiency. Includes Input Signal Detect circuitry, and self-cooling Forced Air Flow heat-sink assembly.



## Model: WMP2350/700/50MK- A

### 1. Electrical Characteristics

Item	Value	Note
Frequency Range	2000 ~ 2700 MHz	
Power Gain	50 (Min.)	@ 100 Watts, over entire Temp. & Frequency Range
Power Gain Flatness	± 1.0 dB (Typ.)	@ 100 Watts, over entire Temp. & Frequency Range
Output Power P <sub>sat</sub>	100 Watts (Min.)	
Input Return Loss	-15 dB (Typ.)	
Enable/Disable	TTL "Low or Open": Enable TTL "High": Disable	Pin 5 on D7W2
VVA Control	0V: Maxim Gain +5V: Maxim Attenuation	Pin 4 on D7W2
VVA Range	> 30 dB	
Forward Power Monitor	2.4 ± 0.2 V @ +50 dBm	Over Frequency Band
Forward Power Monitor Flatness	± 1.0 dBm (Typ.)	Over Frequency Band
Reflect Power Monitor	2.4 ± 0.2 V @ +50 dBm	RMS Detection at Pin 2
Reflect Power Monitor Flatness	± 1.0 dBm (Typ.)	Over Frequency Band
Temperature Monitor	V <sub>t</sub> +500mV, 10mV/C°	Pin 3
Harmonics	-30 dBc (Typ.)	Pout @ 100 Watts
Spurious	-70 dBc (Max.)	Pout @ 100 Watts
Efficiency	> 30 %	Pout @ 100 Watts
DC Input	+28 VDC	
DC Current	12.0 A (Max.)	Pout @ 100 Watts
Standby Current	0.08 A (Max.)	Shutdown Status
In/Output Impedance	50 Ω	
Max. Input without Damage	+10 dBm	

### 2. Mechanical Characteristics

RF In/Out Connector	SMA Female	
DC Input	Pin A1, A2 on D7W2 Male	
Dimensions	13.0" x 8.47" x 4.35"	Unit: inch [mm]
Weight	12.6 lb	

### Revision History

REV	Reason to Change	Date	Initialed by
A	Outline dimensions changed	10/22/15	M.S
B	Location of Modules shifted on heatsink for optimal heat dissipation.	10/29/15	Y.Z.

### 3. Environment Characteristics

Operating Temperature	-10°C ~ +70°C	**Base Plate
Cooling	External Heat-sink	
Humidity (Non-condensing)	95% (Max.)	

### 4. D7W2-Male Pin Description

1	FWD Monitor	
2	REV Monitor	
3	Temperature Sensor	
4	VVA	0 - 5V
5	Enable/Disable	Enable: TTL Low or Open Disable: TTL High
A1	+28VDC	
A2	GND	

### 5. Outline Drawing

