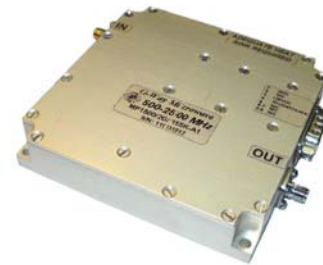




The MP3300/400/15SK-CP-A1 is a broadband and high power amplifier for 3100 ~ 3500 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advanced GaN power devices that provide ample output power, good gain flatness over broadband, a wide dynamic range, and high efficiency. The product integrates a bi-directional coupler for monitoring Forward and Reverse Power as well as integrated Isolator for Load protection.



Model: MP3300/400/15SK-CP-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	3100 ~ 3500 MHz	
Power Gain	40 dB (Min.)	@ +41 dBm
Gain Flatness	± 1.0 dB (Typ.)	Over Frequency @ 10 Watt Output
Output Psat	+41 dBm (Min.)	
Harmonics	-45 dBc (Max.)	Pout @ 10 Watts
Spurious	-70 (dBc.)	Pout @ 10 Watts
Input /Output VSWR	1.5:1 (Max.)	
Output Protection	Isolator Included	
HPA Enable/Disable	TTL "Low or Open" ⇒ Enable TTL "High" ⇒ Disable	
Over Temperature Protection	Shutdown @ +85°C ±5°C	Auto Recover @ +70°C ±5°C
Forward Power Monitor	2.0 ± 0.2 V @ 10 Watts	RMS Detection
Reverse Power Monitor	2.0 ± 0.2 V @ 10 Watts	RMS Detection
DC Input Voltage / Current	+28 VDC ± 1V / 1.8A (Max.)	DC Input Voltage / Current @ Pout 10 Watts CW
Efficiency	>20%	
Input /Output Impedance	50 Ω	
Input Max. without Damage	+5 dBm	

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 ~ +70°C	Base Plate
Cooling	External Heatsink	
Humidity (Non-condensing)	95% (Max.)	

Revision History			
REV	Reason to Change	Date	Initialed by

4. DB9-Male Pin Description		
1	GND	
2	NC	
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

