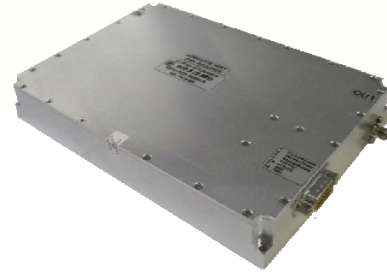




The MP915/25/46MK-A is a linear power amplifier for 902-928 MHz frequency band. It is suitable for Jamming or communication operation. The amplifier employs advance GaAsFET power devices that provide ample output power, a wide dynamic range and broad broadband. It integrates a Bi-directional power coupler for forward and reflection monitor.



Model: MP915/25/46MK-A

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	902 ~ 928 MHz	
Gain	40 dB ± 0.5 dB	
Gain Flatness	± 0.5 dB (Typ.)	Over Freq. Range
Output Power P1	+45 dBm (Min.)	
Output Power Psat	+46.0 dBm (Min.)	
IP3	+56 dBm (Min.)	@ 24 dBm/Tone, 500 KHz Spacing
Input VSWR	1.5:1 (Max.)	
Enable/Disable	TTL "Low or Open": Enable TTL "High": Disable	Pin 3 on DB-9
Thermal Shutdown	+80°C ± 5°C	Auto Recover at +65°C ± 5°C
Forward Power Monitor	4.0 ± 0.2 V @ +45 dBm	RMS Detection at Pin 1
Reflect Power Monitor	4.0 ± 0.2 V @ +45 dBm	RMS Detection at Pin 2
Harmonics	-45 dBc (Max.)	At Rated Power
Spurious	-80 dBc (Max.)	At Rated Power
DC Input	+12 VDC	
DC Current	8.5 A (Max.)	@ +45 dBm
Standby Current	0.1 A (Max.)	Shutdown Status
In/Output Impedance	50 Ω	Isolator Included
Max. Input without Damage	+10 dBm	

2. Mechanical Characteristics		
RF IN/OUT Connector	SMA – Female	
DC Input	Pin 4,5,6 on DB-9	
Dimensions	7.47 x 5.00 x 1.07	
Weight	2.1 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
A	Spec reflects actual performance.	04/30/13	Y.Z.

4. DB9-Male Pin Description		
1	FWD Power Monitor	0-4.0 V
2	REV Power Monitor	0-4.0 V
3	Enable/Disable	Enable: TTL Low or Short Disable: TTL High or Open
4,5,6	+12VDC	
7,8,9	GND	

5. Outline Drawing

