



The MP100/20/5SK-A1 is suitable for VHF linear amplification. The amplifier employs linear LDMOS power devices that provide high efficiency, ample output power, wide dynamic range, and high gain.



Model: MP100/20/5SK-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	95 ~ 200 MHz	
Gain	20 ± 1 dB (Typ.)	
Gain Flatness	± 1 dB (Max.)	Over Frequency Range
Gain Variation	± 1.0 dB	Over Temperature Range
Output P1	+35 dBm (Typ.)	
Input VSWR	1.3:1 (Max.)	
HPA Enable/Disable	TTL "0V" ⇒ Enable TTL "5V or Open" ⇒ Disable	
Forward Power Monitor	4.0 ± 0.2 V @ 5 Watts	RMS Detection
Reverse Power Monitor	4.0 ± 0.2 V @ 5 Watts	RMS Detection
Over Temperature Protection	Shutdown at +85°C ±5°C	
DC Input Voltage / Current	28 VDC ± 1V / 0.5A (Max.)	DC Input Voltage / Current @ Pout 5 Watts CW
Efficiency	35% (Typ.)	Pout @ 5 Watts CW
Input /Output Impedance	50 Ω	
Input Max. without Damage	+10 dBm	

2. Mechanical Characteristics		
Monitoring Connector	DB-9 Male	4 – 40 screw
RF IN/OUT Connector	SMA 4 Hole – Female	
Dimensions	3.0" x 2.75" x 1.0"	

3. Environment Characteristics		
Operating Temperature	-20°C @ +80°C	Base Plate

Revision History			
REV	Reason to Change	Date	Initialed by

4. DB9 Pin Description		
1	GND	
2	N/C	
3	+28 VDC	
4	Enable / Disable	Enable: TTL Low Disable: TTL High or Open
5	Reverse Power Detection	
6	Forward Power Detection	
7, 8, 9	N/C	

5. Outline Drawing

