



The MP175/250/10SK-A1 is suitable for VHF and UHF linear amplification. The amplifier employs linear GaN power devices that provide high efficiency, ample output power, wide dynamic range, and high gain.



Model: MP175/250/10SK-A1

1. Electrical Characteristics		
Item	Value	Note
Frequency Range	50 ~ 300 MHz	
Power Gain	40 (Min.)	Pout @ +40 dBm
Gain Flatness	± 1.0 dB (Max.)	Pout @ +40 dBm
Gain Variation	± 1.0 dB	Over Temperature Range
Output Psat	+40 dBm (Min.)	
Input VSWR	1.3:1 (Max.)	
HPA Enable/Disable	TTL "Low or Open" ⇒ Enable TTL "High" ⇒ Disable	# 4-40 Feedthru
HPA Switching ON/OFF Speed	5 µSec	Including Delay
Harmonics	-10 dBc (Max.) -15 dBc (Typ.)	Pout @ +40 dBm
DC Input Voltage / Current	+12 VDC / 1.8 A (Typ.)	DC Voltage / Current Pout @ 10 Watts CW
Efficiency	40 % (Min.)	
Input /Output Impedance	50 Ω	
Capable of Handling VSWR	6:1	
Max. Input Signal (Without Damage)	+4 dBm	

2. Mechanical Characteristics		
RF IN/OUT Connector	SMA 4 Hole -Female	
DC Input	#8 Feed-thru	
Enable/Disable	#8 Feed-thru	
Dimensions	2.9" x 2.65" x 0.79"	
Weight	0.32 lb	

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

Revision History			
REV	Reason to Change	Date	Initialed by
	Released to Production	01/30/15	Y.Z.

4. Outline Drawing

