



# AMP4057P-1 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Small and light weight rack mounted chassis
- Class AB linear GaN hybrid design
- X-Band medium power pulse applications
- Built-in protection circuits
- Universal voltage AC power supply
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	9.3 - 9.8 GHz	
Power Output@ Peak Pulse	200 Watt Min	Peak pulse
Pulse Characteristics	<b>Width</b>	<b>Drop</b>
	1 - 130 $\mu$ Sec	0.4 dB Max
	<b>Duty</b>	<b>Rise/Fall</b>
	12 %	< 200 nS
	<b>PRF</b>	
	10 KHz	
Power Gain	50 dB Nom	
Operating Input Power	5 dBm $\pm$ Nom	
Max Input Power Protection	+10 dBm	<10 Sec without damage
Power Gain Flatness	0.5 dB p-p Max	
Gain Variation Over Temp	2.0 dB p-p Max	
Input Return Loss	12 dB Min	Relative to 50 Ohm
Harmonics	-30 dBc Typ	At rated Pout
Spurious	-70 dBc Max	Non-harmonics
Noise Figure	10 dB Max	
Operating Voltage	100 - 240 VAC	50-60Hz
Power Consumption	450 Watt Max	At rated Pout
Load VSWR Protection	5 : 1	At rated Pout for <1 min.
Muting Speed - Pulse Trigger	2 $\mu$ S Max	TTL
Cooling	Built-in forced air	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-10 to +55°C	Automatic shutdown
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Altitude	20,000 feet Min	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	R3U	Excluding handles
Weight	20 Kg. Max.	
RF Connectors In/Out	SMA (F) / Type N (F)	
AC Power / Interface Connector	MIL-C-26482 / 9-Pin D-Sub	Can be customized
Cooling	Built in Fan Cooling	
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 RF Output Sample port (SMA F)	

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## OUTLINE DRAWING

