



# AMP4001P-1 SOLID STATE HIGH POWER PULSE AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous bandwidth
- Suitable for S-Band long pulse applications
- Built-in protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes	
Operating Frequency Range	3.0 - 3.5 GHz				
Power Output @ Saturation	750 - 800 Watts Typ			Pulse	
Power Gain	58 dB Min			0dBm for normal operation	
Pulse Characteristics	<b>Width</b>	<b>Duty</b>	<b>Droop</b>	<b>Rise/Fall</b>	
	1.5mS Max	35 % Max	1 dB Max	<200nS	
Power Gain Flatness	2.0 dB p-p Max			Constant input power	
Input Return Loss	10 dB Min			Relative to 50 Ohm	
Harmonics	-20 dBc Typ			At rated output power	
Non Harmonics Spurious	-60 dBc Max				
Operating Voltage	180 - 240 VAC				
Power Consumption	2 KW Avg. Max			At rated Pout	
Max Input Power Protection	+5 dBm			< 10Sec without damage	
Load VSWR Protection	5 : 1 Max			At rated Pout for <1 minute	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	13U Rack Mount Cabinet	See outline drawing
Weight	TBD	
RF Connectors In / Out	Type-N Female / 7/16 DIN	Front Panel Standard
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Pulse Gating	Optional	2μS delay
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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## OUTLINE DRAWING

