



AMP2043P SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor rack mounted system
Class AB linear GaN design
Instantaneous octave bandwidth
Suitable for high peak pulse applications
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 2.0 GHz	
Power Output @ Peak Pulse	2.0 KW Min	Peak Pulse
Pulse Width	0.1 - 10 uS	
Duty Cycle	5 % Max	
Pulse Repetition Rate	1.0 - 10 KHz	
Power Gain	60 dB Min	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
Noise Figure	6 dB Max	
Output Power On/Off Ratio	>90 dB	TTL Gate Control
Harmonics	>20 dBc Typ	At rated output power
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	50 - 60 Hz
Power Consumption	1000 Watt Avg	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR	Full spec @ 1.5 : 1 & Operational @ 2 : 1	

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	5U Rack Mount Chassis	
Weight	35 Kg	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	TBD	
Cooling	Built in Fan Cooling	Variable speed
Optional Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

