



AMP2068P-1 SOLID STATE HIGH POWER AMPLIFIER



FEATURES

- Rack mounted system
- L-Band high pulse peak power GaN design
- Instantaneous wide bandwidth
- Suitable for high power 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	500 Watt Typ			Pulse
Pulse Characteristics	Duty	Width	PRF	
	5%	0.1 - 5 μ S	10KHz	
Power Gain	57 dB Min			
Power Gain Flatness	2.0 dB p-p Max			Constant input power
Input Return Loss	10 dB Min			Relative to 50 Ohm
Gating On / Off Ratio	>90 dB			
Harmonics	>20 dBc Typ			At rated output power
Non Harmonics Spurious	60 dBc Min			
Operating Voltage	180 - 240 VAC			
Efficiency	20 % Nom			At rated Pout
Max Input Power	+8 dBm			1 Minute without damage
Load VSWR Protection	5 : 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

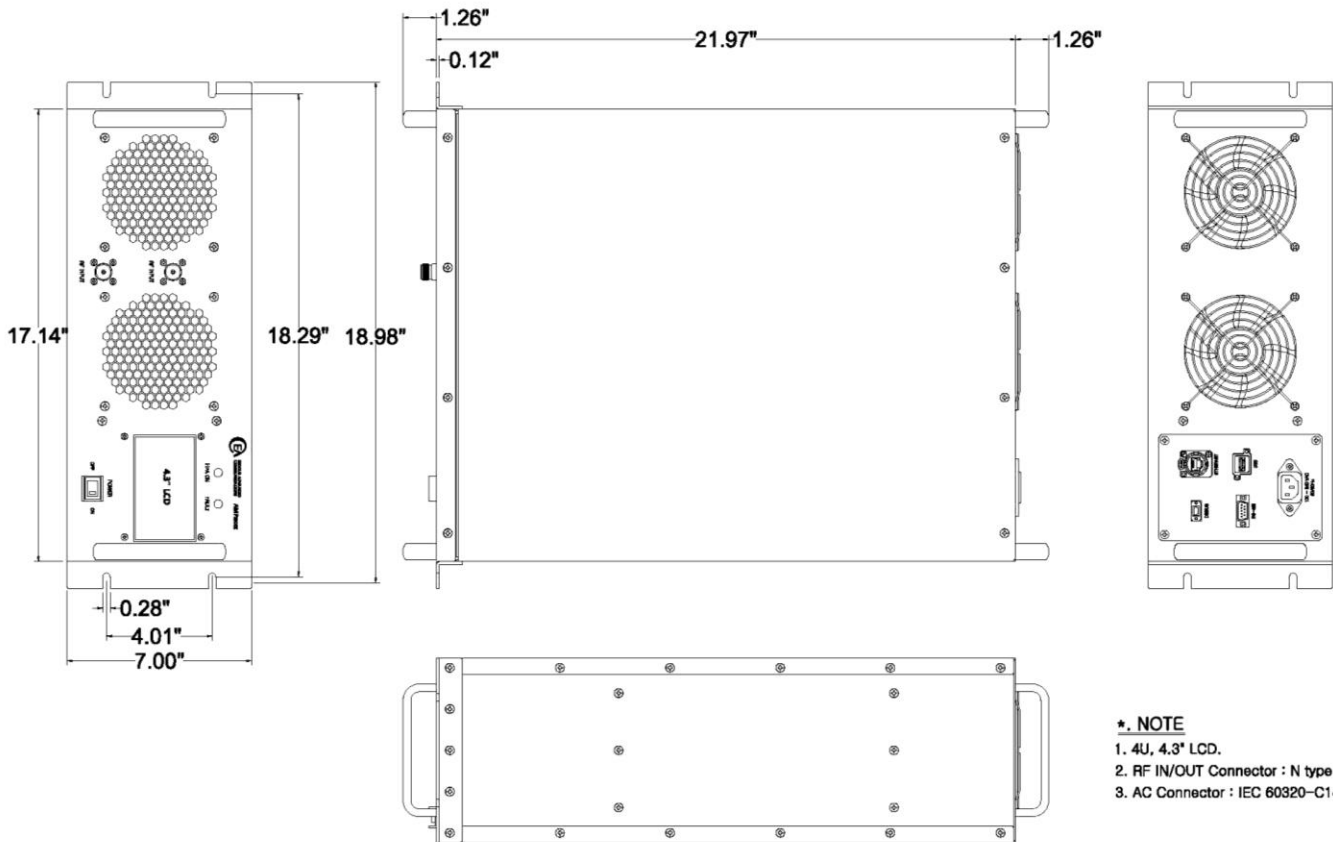
Parameter	Specification	Notes
Dimensions W x H x D	4U Rack Mount Chassis	See outline drawing
Weight	35 Kg	
RF Connectors In / Out	Type-N Female	Front Panel Standard
Interface Connector	9-Pin D-Sub	See table pin assignment
AC Power Connector	IEC 60320-C14	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	Remote Bluetooth application

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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	Reserved	N/C
2	Reserved	N/C
3	Reserved	N/C
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV Typ$
5	GATING	TTL - On / Off
6	VDD	Internal Power Supply Voltage
7	Reserved	N/C
8, 9	GND	Ground

OUTLINE DRAWING



- *. NOTE**
1. 4U, 4.3" LCD.
 2. RF IN/OUT Connector : N type Female
 3. AC Connector : IEC 60320-C14