

# AMP2089 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Rack mounted system  
 Class AB linear GaN design  
 Instantaneous wide bandwidth  
 Suitable for all single channel modulation standards  
 Built-in protection circuits  
 High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	700 - 4200 MHz	
Power Output@ Psat	200 Watt Typ	CW
Power Output @ P1dB GCP	120 Watt Min	180W Min @ 3.0-3.5GHz
Power Gain	53 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, $\Delta = 1$ MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	120 - 240 VAC	
Power Consumption	1200 Watt Max	At rated output
Max Input Power Protection	+8 dBm	<10 Sec without damage
Load VSWR Protection	$\infty : 1$	<1 minute at rated Pout

## ENVIRONMENTAL CHARACTERISTICS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 222 x 560 mm	Excluding connectors & handles
Weight	35 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
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 - With Rear Panel Connectors**

