

# AMP2109 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Two inputs and two outputs
- Suitable for all single channel modulations standards
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
	A	B	
Band			
Operating Frequency Range Band B	1 - 6 GHz	6 - 18 GHz	
Power Output CW Band A / Band B	10 Watt Min		CW
Power Gain	40 dB Min		
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input Return Loss	10 dB Min		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		30dBm per tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ		At rated Pout
Non Harmonic Spurious	-60 dBc Max		Non Harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	250 Watt Max		At rated Pout
Max Input Power	+8 dBm		Without damage
Load VSWR Protection	$\infty : 1$		

## ENVIRONMENTAL CHARACTERISTICS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U, excluding handles
Weight	10 kg.	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
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	Remote Bluetooth application

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## OUTLINE DRAWING

