



# AMP2098 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous ultra-wide bandwidth
- Suitable for all single channel modulations standards
- Designed for broadband EMI/RFI, Lab, Communication applications
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°

Parameter	Specification	Notes
Operating Frequency Range	0.7 - 6.0 GHz	
Power Output @ Psat	20 Watt Min	CW
Power Output @ P1dB GCP	15 Watt Min	CW
Power Gain	43 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	33dBm/Tone, Δ = 1MHz
Harmonics	2 <sup>nd</sup>	At rated Pout
	3 <sup>rd</sup>	
Spurious	-30 dBc Typ	
Spurious	-60 dBc Max	Non Harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	250 Watt Max / 200 Watt Typ	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 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-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U, excluding handles
Weight	9 kg.	
RF Connectors In/Out	Type-N Female	
Sample Port Connector	SMA-Female	
Interface Connector	9-Pin D-Sub	See table pin assignment
AC Power Connector	IEC 60320-C14	
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, USB Optional GPIB Interface	Optional Remote Bluetooth application

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## D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	Reserved	N/C
2	Reserved	N/C
3	CURRENT SENSOR	$I_D @ 20mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	SHUTDOWN	TTL - Standby Mode
6	Reserved	N/C
7	Reserved	N/C
8, 9	GND	Ground

## OUTLINE DRAWING

