



# AMP2102A SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Small and light weight bench top chassis
- Class AB linear GaN Hybrid design
- Instantaneous Ultra-broadband
- Suitable for all single channel modulation standards
- Built-in protection circuits
- Universal voltage AC power supply
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 20.0 GHz	
Power Output @ Psat	5 Watt Min	CW
Power Output @ P1dB GCP	2 Watt Min	CW
Power Gain	37 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	27dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-25 dBc Typ	At rated Pout
Non Harmonics Spurious	60 dBc Min	Non Harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	150 Watt Max	At rated Pout
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 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	230 x 88 x 265 mm	2U benchtop
Weight	8 kg.	
RF Connectors In/Out	Type-N Female	
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 Optional GPIB Interface	Available in a 2U chassis

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## OUTLINE DRAWING

