



# AMP2019-1 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

- Rack mount system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all single channel modulation standards
- Built-in protection circuits
- Optional uP remote control & monitoring
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	700 - 3000 MHz	
Power Output	30 Watt Typ	CW
Power Output @ P1dB	24 Watt Min	
Power Gain	45 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	37dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	90 - 260 VAC	
Power Consumption	300 Watt Max	At Rated Pout
Max Input Power protection	+10 dBm	<10 Sec without damage
Load VSWR Protection	$\infty : 1$	<1 minute Sec without damage

## 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
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 Optional GPIB Interface	Remote Bluetooth application

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## OUTLINE DRAWING

