



# AMP2141A SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

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

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	8.0 - 18.0 GHz	
Power Output @ Psat	150 Watt Min / 200 Watt Typ	CW
Power Gain	53 dB Min	Nominal Pin = 0dBm
Power Gain Flatness	5 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, $\Delta = 1\text{MHz}$
Harmonics	<-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	2500 Watt Max	At rated output
Input Power Protection	+3 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1	<1 minute at rated min 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 266 x 600 mm	6U Excluding handles
Weight	40 Kg. Nom	
RF Connectors In/Out	Precision N Female / WRD750	
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
<b>EMI SERIES:</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

# AMP2141A SOLID STATE HIGH POWER AMPLIFIER

## OUTLINE DRAWING

