



AMP2050A SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear GaN design
- Instantaneous whole S & C bands coverage
- Designed for EMI/RFI, lab, and general communication applications
- Suitable for all single channel modulation standards
- Small and light weight rack mount system
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 8.0 GHz	
Power Output	15 Watt Min / 18 Watt Typ	CW
Power Gain	42 dB Min	
Power Gain Flatness	4.0 dB p-p	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	32dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	<-20 dBc Typ	At rated output power
Non Harmonics Spurious	-60 dBc Max	
Operating Voltage	100 - 240 VAC	Single phase
Power Consumption	350 Watt Max	At Rated Pout
Input Power Protection	+5 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 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 connectors
Weight	10 kg.	
RF Connectors In/Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application



AMP2050A SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING

