

AMP4006 SOLID STATE HIGH POWER AMPLIFIER

PRELIMINARY

FEATURES

- Rack mounted system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all modulations standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 2.2 GHz	
Power Output	100W Min	CW
Power Gain	50 dB Min	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB	
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	41dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc	At rated output power
Non Harmonics Spurious	>60dBc	
Operating Voltage	100 - 240 VAC	
Power Consumption	350 Watt	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 1	

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 565 x 88 mm	2U - Excluding handles
Weight	10 kg.	
RF Connectors In / Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin Dsub	
Monitor & Control (Digital Control Option): FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy	Remote Bluetooth application
Cooling	Built in Fan Cooling	Variable speed

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OUTLINE DRAWING

