



AMP2031 SOLID STATE HIGH POWER AMPLIFIER

PRELIMINARY

FEATURES

- Rack mounted system
- Class AB linear LDMOS 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	0.01 - 30 MHz	
Power Output	200 Watt Min	CW
Power Gain	53 dB Min	
Power Gain Flatness	4 dB p-p Max	
Input 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	
Non Harmonic Spurious	60 dBc Min	
Operating Voltage	100 - 240 VAC	
Power Consumption	1200 Watt	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

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 PECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 560 x 133 mm	3U
Weight	20 Kg. Max	
RF Connectors In/Out	Type-N Female	
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, GPIB Interface	Remote Bluetooth application



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OUTLINE DRAWING

