



AMP2038-1 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Designed for high power HF applications
- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous wide bandwidth
- Suitable for all single channel modulation standards
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50 Ω , 25 °C

Parameter	Specification	Notes
Operating Frequency Range	1.0 - 8.5 MHz	
Power Output	2000 Watt Min	CW into up to 3:1 load VSWR
Power Gain	63 dB Min	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	53dBm/Tone, $\Delta = 1$ MHz
Harmonics 2nd / 3rd	-10 dBc / -25 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Noise Figure	8 dB Max	
Operating Voltage	180 - 240 VAC	Single or 3 phase/50-60Hz
Power Consumption	5 kW Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	3 : 1 @ 2000 W, 5:1 @ 1000 W	Auto shutdown

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +75 °C	
Relative Humidity	0 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 508 x 133.3 mm	5U
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front or Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
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, USB Optional GPIB Interface	Remote Bluetooth application
Protection Function	Hi Temp, Over Voltage, Over Current, programmable Load VSWR up to 5:1	

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OUTLINE DRAWING

