

# AMP2038 SOLID STATE HIGH POWER AMPLIFIER



## 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	5.0 - 20.0 MHz	
Power Output	1000 Watt Min	CW into up to 3:1 load VSWR
Input Power	0 dBm Max	For rated Pout
Power Gain	60 dB Min	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics 2nd / 3rd	10 dBc / 25 dBc Typ	At rated output power
Noise Figure	8 dB Max	
Phase Noise	TBD	
Non Harmonics Spurious	>70dBc	>80dBc goal
Operating Voltage	180 - 240 VAC	Single or 3 phase/50-60Hz
Power Consumption	2500 Watt Typ	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR	3 : 1 @ 1000 W, 5:1 @ 500 W	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-20 to +40 °C	
Storage Temperature	-30 to +50 °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	3U
Weight	20 kg.	
RF Connectors In / Out	Sub Miniature Ver. A/Type-N Female	Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Digital uP Controller for Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	
Protection Function	Hi Temp, Over Voltage, Over Current, programmable Load VSWR up to 5:1	

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## OUTLINE DRAWING (Typical)

