



AMP2138 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear LDMOS design
- Instantaneous VHF & UHF wide bandwidth
- ARC210 Radio multi-mode voice and data communication
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	30 - 400 MHz	
Power Output @ Psat	200 Watt Min	CW
Power Output @ P1dB	120 Watt Min / 150 Watt Typ	
Power Gain	53 dB Nom	
Input Power Range	-20 dBm to +15 dBm	
Gain Control	1 dB steps over -20 to +15dBm	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 126 VAC, 45 - 420 Hz	Single phase
Power Consumption	600 Watt	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing
Shock	MIL-STD-901D operating ±15g, 11mS	±30g non-operating
Vibration	MIL-STD-167-1 Type 1	
EMI/EMC	MIL-STD-461C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U - Excluding connectors
Weight	20 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 Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	ARC-210, Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Optional Remote Bluetooth application

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OUTLINE DRAWING

