

AMP2121 SOLID STATE HIGH POWER AMPLIFIER



FEATURES

Rack mounted cabinet 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

Parameter	Specification	Notes
Operating Frequency Range	80 - 1000 MHz	
Power Output	2000 Watt Min	CW
Power Output @P1dB GCP	1000 Watt Typ	CW
Power Gain	63 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-20 dBc Typ	
Non-Harmonics Spurious	-60 dBc Max	
Operating Voltage	120 VAC, 3-Phase	
Power Consumption	10 KW Max	At rated Pout
Max Input Power	+3 dBm	Without damage
Load VSWR Protection	10: 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	2 x R7U + R3U	Rack Mount Cabinet
Weight	TBD	
RF Connectors In/Out	Type-N Female / 7/16-F	
AC Power / Interface	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 Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

One R7U chassis

