AMP2014A
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, and general communication applications
Small form factor, rack mounted system
High power advanced linear device technology
Instantaneous P & L wide bandwidth
Built-in control, monitoring, and protection circuits
Local LCD & remote flexible interfaces
High efficiency, with unprecedented reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	500 - 1200 MHz	
Power Output @ Psat	1000 Watt Min	CW or pulse
Power Gain	60 dB Min	0dBm or less for rated Pout
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or Remote capable
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	180 - 264 VAC	47 - 63Hz
Power Consumption	4500 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max[1]	<10 Sec without damage
Load VSWR Protection	5 : 1 Max[2]	<1 Minute at rated Pout

1 Units with optional digital monitor and control, for basic units <10 Sec without damage
2 Units with optional digital monitor and control, for basic units <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	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport[3]	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 221 x 560 mm	5U, excluding handles
Weight	40 Kg.	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	IEC 60320-C14	Or equivalent
Interface Connector	9-Pin, D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	 IEEE rear panel BNC-F rear panel

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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	12-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING