



AMP4043-500 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
 Class AB linear GaN 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	2.5 - 4.8 GHz	
Power Output	500 Watt Min	CW
Power Gain	57 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	47dBm/Tone, $\Delta = 1\text{MHz}$
Harmonics	-30 dBc Typ	At rated output power
Non-harmonics Spurious	-60 dBc Max	
Operating Voltage	180 - 260 VAC	
Power Consumption	5000 Watt Max	At rated Pout
Max Input Power	+8 dBm	10 Sec without damage
Load VSWR Protection	$\infty : 1$	1 Min @ rated output

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-20 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 248 x 560 mm	R6U - excluding connectors
Weight	TBD	
RF Connectors In / Sample Port	Type-N Female	
RF Connectors Output	TBD - WR-229 and WR-340	Interchangeable
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Option: Digital Monitor & Control LCD: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy Optional GPIB (IEEE) interface	

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OUTLINE DRAWING

