

AMP6025-1 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor, rack mounted system
Class A/AB linear design using high power advanced devices
Instantaneous ultra-wide bandwidth
Designed for EMI/RFI, lab, and general communication applications
Suitable for all signal channel modulation applications
Built-in protection circuits with extensive monitoring
Optional all remote-control platforms
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.4 - 2.5 GHz	
Power Output @ Psat	250 Watt Min	Pin = 0dBm Typ for rated Pout
Power Output @ P1dB G.C.P.	100 Watt Typ	
Power Gain	54 dB Min	
Power Gain Flatness	2 dB p-p Max	Constant input power
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	44dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	1000 Watt	At rated Pout
Input Power Protection	+10 dBm Max	>10 Sec without damage
Load VSWR Protection	4 : 1 Max	<1 minute without damage

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U without handles
Weight	20 kg.	
RF Connectors In / Out (optional RF Sample)	Type-N Female	Front or rear panel
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	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING

