



AMP4075P SOLID-STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB solid-state linear design
- Instantaneous bandwidth
- Suitable for L-Band high power pulse applications
- Built-in protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	950 - 1300 MHz				
Power Output Peak Pulse	500 Watt Min				
Pulse Characteristics	Duty	Width	Droop	Rise / Fall	
	5 %	0.1 - 100 μS	<1 dB	<75 nS	
Power Gain	57 dB Min			Pin = 0dBm for Nom Pout	
Power Gain Flatness	2.0 dB p-p Max			Constant input power	
Input Return Loss	-10 dB Max			Relative to 50 Ohm	
Harmonics	-30 dBc Typ			At rated Pout	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	100 - 240 VAC				
Power Consumption	<200 Watt Typ			Pout = 500 Watt, DS = 5 %	
Input Power Protection	+8 dBm Max			<10 Sec without damage	
Load VSWR Protection	10 : 1 Max			<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 and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 600 mm	3U - wo handles & connectors
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Specify front or rear
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control	Ethernet RJ-45 TCP/IP, RS422/485	Optional
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Optional GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING

