



AMP6038P SOLID-STATE HIGH POWER AMPLIFIER

FEATURES

- Rack mounted system
- Class AB solid-state linear design
- Narrow band IFF frequency range
- 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	1030 & 1090 MHz	
Power Output Peak Pulse	2000 Watt Min	
Pulse Characteristics	Duty	Rise / Fall
	Width	
	0.1 - 4 %	<75 nS
Power Gain	63 dB ± 2.0dB	Pin = 0dBm for Nom Pout
Power Gain Flatness	1.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	2 nd	At rated Pout
	3 rd	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	6 KW Peak Max / 400 Watt Avg Max	2000 Watt with DS = 4 %
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 560 mm	3U - Excluding handles
Weight	20 kg.	
RF Connectors In / Out	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	Optional Remote Bluetooth application

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OUTLINE DRAWING

