



AMP6038AP

SOLID-STATE HIGH POWER PULSE AMPLIFIER



FEATURES

- Rack mounted system
- Class AB solid-state LDMOS linear design
- Designed for 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		1025 - 1150 MHz			
Power Output Peak Pulse		2500 Watt Min			
Pulse Characteristics		Duty	Width	Droop	Rise / Fall
		5 % Max	5 μS Max	<1 dB	<75 nS
Power Gain		64 dB Min			Pin = 0dBm for Nom Pout
Power Gain Flatness		2.0 dB p-p Max			Constant input power
Gain Adjustment Range		20 dB Typ			
Input Return VSWR		1.5 : 1 Min			Relative to 50 Ohm
Harmonics	2 nd	-40 dBc Typ			At rated Pout
	3 rd	-40 dBc Max			
Spurious		-60 dBc Max			Non-harmonics
Operating Voltage		100 - 264 VAC			
Power Consumption		500 Watt Avg Max			At rated Pout, 5% Duty
Input Power Protection		+13 dBm Max			<10 Sec without damage
Load VSWR Protection		∞ : 1 Max			Auto shutdown at >5:1 VSWR

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 222 x 560 mm	5U - Excluding handles
Weight	35 Kg	
RF Connectors In / Out / RF Monitoring	Type-N F / SMA-F	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or Equivalent
Cooling	Built in Fan Cooling	Variable speed
INCLUDED: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, DUTY	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Remote Bluetooth application

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OUTLINE DRAWING

