



AMP4054DP SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

- Rack mounted system
- Class AB linear GaN design
- Suitable for S-Band high power pulse applications
- Built in fast pulse modulator
- Built-in monitoring and protection circuits
- High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes
Operating Frequency	2.8 - 3.5 GHz			
Peak Pulse Power Output	5 KWatt Min			NOTE: 4KW Min / 5KW Typical from 2.8-2.9 and 3.4-3.5GHz
Power Gain	57 dB Min			Pin = +10 dBm for Nom Pout
Pulse Characteristics	Width	Duty	Droop	Max rating
	5 - 120 μS	3.5 %	<1 dB	
Pulse Rise / Fall Time	75 nS Max			Nominal Peak Power 10% - 90%
Switching Delay Time (Td)	200 nS Typ			
Power Gain Flatness	3 dB p-p Max			
Input Return Loss	-12 dB Max			Relative to 50 Ohm
Harmonics	-30 dBc Max			
Spurious	-60 dBc Max			Non-harmonics
Operating Voltage	180 - 260 VAC			Single phase
Power Consumption	2 KWatt Avg			At 5KW Peak Pulse
Input Power Protection	+13 dBm Max			<10 seconds without damage
Load VSWR Protection	∞ : 1			Output Isolator
Pulse Gating Speed	1 - 2 μS Max			Optional
Pulse Modulator Speed	<1 μS Max			Optional

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 311 x 600 mm	7U - excluding handles
Weight	38 Kg.	
RF Connectors In / Out	Type-N Female / WR284	
Pulse Gating Input	BNC-F	2.4V ±0.25V switching threshold
AC Power / Interface Connector	MS / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTION: Digital LCD 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

OUTLINE DRAWING

