



# AMP4039-1P SOLID STATE PULSE HIGH POWER AMPLIFIER

## FEATURES

- Standard 19" rack mounted chassis
- High power advanced GaN pulse devices
- Instantaneous bandwidth
- Suitable for linear pulse applications
- Microprocessor LCD controller
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes	
Operating Frequency Range	5.4 - 5.9 GHz				
Peak Output Power	4 KW Min / 5 KW Typ			@ 10% Duty Cycle	
Output Power Flatness	3 dB p-p Max				
Input Power	0 dBm Nom				
Saturated Gain	66 dB Min			Pin = 0 dBm Nom	
Pulse Characteristics	<b>Width</b>	<b>Duty</b>	<b>PRF</b>	<b>Rise / Fall</b>	<b>Droop</b>
	100 $\mu$ S Max	10 % Max	1 KHz	<150 nS	<0.8 dB
Input / Output VSWR	1.5 : 1 Min			Relative to 50 Ohm	
Harmonics	-30 dBc Max			At rated Output Power	
Spurious	-65 dBc Max			Non-harmonic	
Load VSWR Protection	5 :1 Max			No damage	
AC Input Voltage	220 VAC, 50/60 Hz				
Efficiency	20 % Avg. Typ				

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-20 to +70°C	
Relative Humidity	95% @ 40°C	
Altitude	5160 m	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	423 x 444 x 580 mm	10U without handles
Weight	90 Kg. Max	
RF Connectors In/Out	Type-N Female / CPR187 Waveguide	Rear panel
Driver Input Connector	BNC Female	Rear Panel
RF Output Monitoring	SMA Female	50dB $\pm$ 1dB coupled Port
AC Power	MS3102A24-10P	Rear panel, or equivalent
AC Power Switch	Circuit Breaker - LED	Front panel
<b>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS232/RS422/485, USB Optional GPIB IEEE	Rear panel



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## PROTECTIONS

Parameter	Specification	Notes
General Protection	AC overload, Over temperature, Load VSWR	
Pulse protection	Pulse width, Duty cycle	

## OUTLINE DRAWING

