



# AMP2103P SOLID STATE HIGH POWER AMPLIFIER



## FEATURES

- Designed for high power Pulse and CW automotive testing applications
- Rack mounted system
- Class AB linear GaN design
- Instantaneous wide bandwidth
- Built-in protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

Parameter	Specification			Notes	
Operating Frequency Range	0.8 - 3.2 GHz				
Power Output @ Peak Pulse	1000 Watt Min			Pulse	
Pulse Characteristics	<b>Width</b>	<b>Duty</b>	<b>PRF</b>	<b>Droop</b>	
	100 μS	10 %		<1 dB	
Power Output CW	500 Watt Min			CW	
Power Gain	60 dB Min				
Gain Adjustment Range	20 dB min				
Power Gain Flatness	3.0 dB p-p Max			Constant input power	
Input Return Loss	-10 dB Max			Relative to 50 Ohm	
2-Tone Intermodulation (IMD)	<-30 dBc Typ			47dBm/Tone, Δ = 1MHz	
Harmonics	<-20 dBc Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	180 - 264 VAC			50 - 60 Hz	
Power Consumption	3 KW Max			At rated Pout	
Input Power Protection	+5 dBm Max			<10 Sec without damage	
Load VSWR Protection	∞ : 1			<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 Vibration	(MIL-STD-810F, Method 516.5, Procedure I MIL-STD-810F, Method 514.5, Procedure I	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 266 x 600 mm	6U without handles
Weight	40 Kg. Typ	
RF Connectors In / Out	Type-N Female / 7/16 DIN	Front or rear panel
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
<b>Standard:</b> Digital Monitor & Control: FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

## OUTLINE DRAWING

