



# AMP2099 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications  
 Small form factor, rack mounted system  
 Class A/AB Linear design  
 High Power Advanced technology devices  
 Instantaneous ultra-wide bandwidth  
 Built-in protection circuits, with extensive monitoring  
 Local LCD & remote flexible interfaces  
 High efficiency, with unprecedented reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	0.7 - 6.0 GHz	
Power Output @ Psat	50 Watt Typ	CW or Pulse
Power Output @ P1dB	30 Watt Typ	40W Nominal
Power Gain	47 dB Min	0dBm or less for rated Pout
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote
Input Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	37dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Max	At rated output power
Spurious	-60dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63 Hz
Power Consumption	<300 Watt Typ / 400 Watt Max	At rated output
Input Power Protection	+10 dBm Max <sup>1</sup>	
Load VSWR Protection	4 : 1: Max <sup>2</sup>	Foldback @ preset limit
Sample Port (optional)	-40 dB	N-Female

1 Units with optional digital monitor and control, for basic units <10 Sec without damage

2 Units with optional digital monitor and control, for basic units <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	up to 95 %	Non-condensing
Altitude	3000 meters	
Shock & Vibration	Normal transport <sup>3</sup>	

3 MIL Spec available for quotation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U - Excluding handles
Weight	10 kg.	
RF Conn. In / Out / Sample	N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320-C14	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control (DMC) FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Optional Safety Interlock (INT)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

e



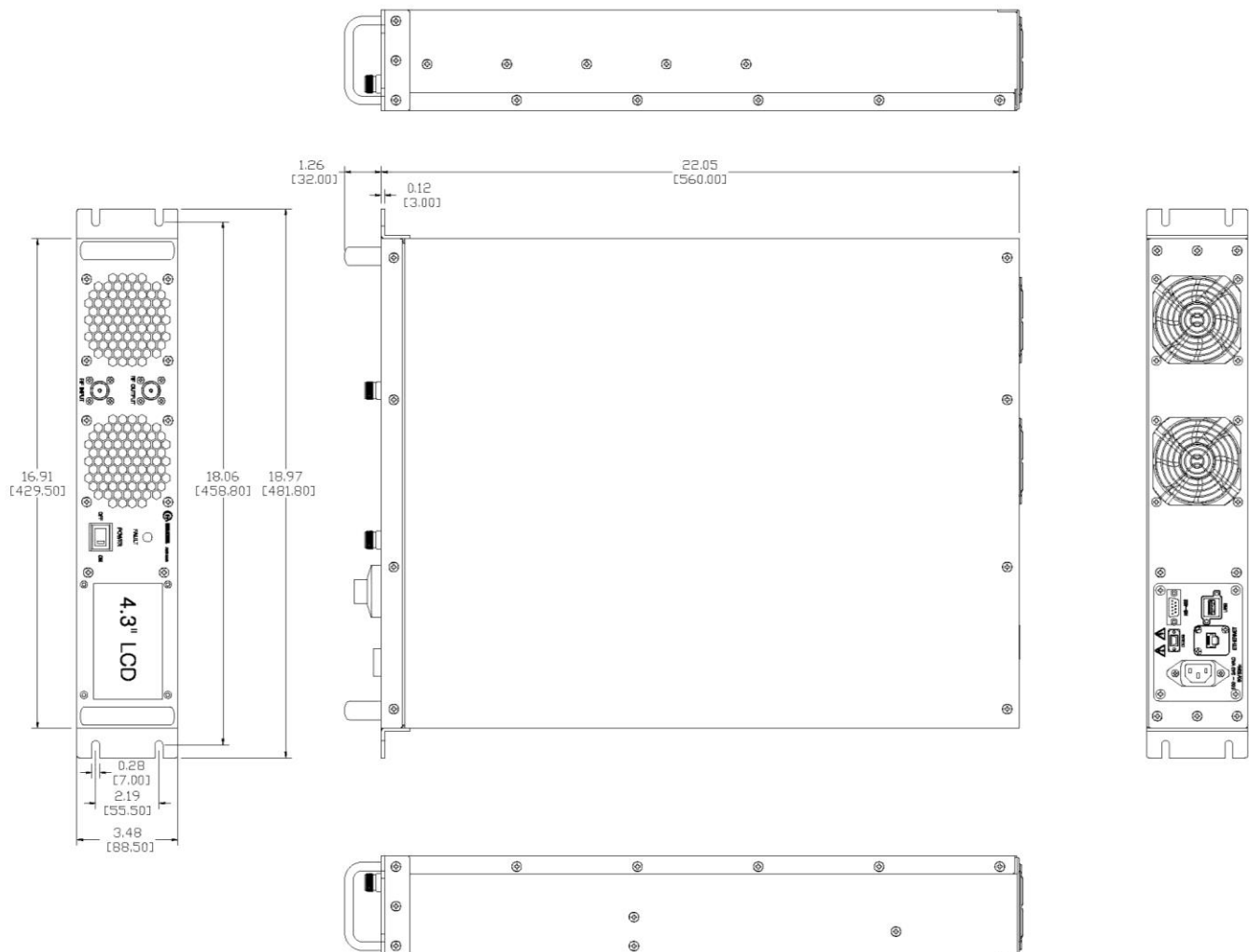
# AMP2099 SOLID STATE HIGH POWER AMPLIFIER

## AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
<b>Included CPM:</b> Calibrated Power Monitoring (with purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	6-points standard <sup>4</sup>

<sup>4</sup> Consult with factory if additional points would be required

## OUTLINE DRAWING SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER





# AMP2099 SOLID STATE HIGH POWER AMPLIFIER

## OUTLINE DRAWING BASIC UNIT, NO CONTROLLER

