

# AMP20098 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  
 LEGACY PN: AMP2085-1



## ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 8.0 GHz	
Power Output @ Psat	120 Watt Min / >130Watt Typ	CW or Pulse
Power Gain	51 dB Min	0dBm or less for rated Pout
Power Gain Flatness	5 dB p-p Max	Constant input power
Gain Adjustment Range	>20 dB Typ	Local or remote capable
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	40dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47-63 Hz
Power Consumption	1400 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 Coupling (optional)	-50 dB	N-Female

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

<sup>2</sup> 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>	

<sup>3</sup> MIL Spec available for quotation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 177 x 560 mm	4U, excluding handles
Weight	25 Kg. Nom	
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>STANDARD:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, <b>OPTIONAL:</b> Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB  Open=STBY/Short=RFON	  BNC Female on rear panel

# AMP20098 SOLID STATE HIGH POWER AMPLIFIER

### AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option PCO: Pulse Control (BNC Female)	Pulse control for Pulsing applications	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	7-points standard <sup>4</sup>

<sup>4</sup> Consult the factory if additional points are required.

### OUTLINE DRAWING SHOWN WITH LCD DIGITAL CONTROLLER

