



# AMP2085-3 CW & PULSE 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	2.0 - 8.0 GHz	
Power Output@ Psat	20 Watt Min / 25 Watt Typ	CW or Pulse
Power Output Pulse	20 Watt Min	1-100μS, up to 10% Min
Power Gain	43 dB Min	0dBm or less for rated Pout
Power Gain Flatness	5 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min	Local or remote
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	33dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	100 - 240 VAC	50/60 Hz
Power Consumption	250 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
Gating function	5 μS Max	Rear panel D-Sub
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 133.3 x 560 mm	3U - Excluding handles
Weight	20 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>OPTIONAL:</b> Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	

e

# AMP2085-3 CW & PULSE SOLID STATE HIGH POWER AMPLIFIER

**OUTLINE DRAWING**  
Shown with Optional LCD Controller

