

# AMP2073 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 - 18.0 GHz	
Power Output @ Psat	10 Watt Min	CW or Pulse
Power Output @ P1dB	5 Watt Typ	
Power Gain	40 dB Min	0dBm or less for rated Pout
Power Gain Flatness	6.0 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	$30$ dBm/Tone, $\Delta = 1$ MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-60dBc Max	Non-harmonics
Operating Voltage	100 - 240 VAC	47 - 63 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
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	9 kg.	
RF Conn. In / Out / Sample	N-Female	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
AC Power	IEC 60320	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
<b>OPTIONAL:</b> Digital Monitor & Control (DMC <sup>4</sup> )	Ethernet RJ-45 TCP/IP, RS422/485, USB	
FWD, REV, VSWR, GAIN, ALC, V & I, TEMP,	Optional GPIB Interface	IEEE rear panel
Optional Safety Interlock (INT)	Open=STBY/Short=RFON	BNC-F rear panel

4 Option DMC, LCD controller option may reduce output power by up to -0.5dB

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### **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	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	9-points standard⁵

5 Consult with factory if additional points would be required

## **OUTLINE DRAWING**

SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER

