

AMP2073CDB-LC SOLID-STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, CW/Pulse and all communication applications.
Small form factor, rack mounted Dual-Band 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
Band	Band A	Band B	Band switching @ 15 mS Max
Operating Frequency Range by Band	0.7 - 6.0 GHz	6.0 - 10.0 GHz	CW or Pulse
Power Output @ Psat	250 Watt Min	125 Watt Min	
Power Output @ P1dB	150 Watt Typ	60 Watt Typ	
Power Gain	54 dB Min	52 dB Min	0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max	4.0 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min		Local or remote capable
Input Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		40dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		47 - 63Hz
Power Consumption	2000 Watt Max		At rated output
Input Power Protection	+10 dBm Max ¹		
Load VSWR Protection	4 : 1: Max ²		Foldback @ preset limit
Sample Port (optional)	-50 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 ³	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	421 x 310 x 700 mm	7U, excluding handles
Weight	40 Kg. Max	
RF Conn. In / Out / Sample (optional)	N-Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent. Rear panel
Cooling: Built in Quiet-Cool	Close circuit Air-liquid cooling	
OPTIONAL: Digital Monitor & Control (DMC ⁴) 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

4 Controller will reduce output power by up to typically 0.5dB.

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Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, 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	11-points standard ⁵

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER

