

AMP2073-1P SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, 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 - 12.0 GHz				
Power Output @ Pulse	15 Watt Min			Peak pulse	
Pulse Characteristics	Duty	Width	PRF	Rise / Fall	
	10 %	100 μS	Up to 100kHz	75 nS Max	
Power Gain	42 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 interface	
Input Return Loss	-10 dB Max				
2-Tone Intermodulation (IMD)	-30 dBc Typ			32dBm/Tone, Δ = 1MHz	
Harmonics	-20 dBc Typ			At rated output	
Non-Harmonics Spurious	-60dBc Max			Non-harmonic	
Operating Voltage	100 - 240 VAC			47 - 63Hz	
Power Consumption	300 Watt Max			At rated output	
Input Power Protection	+8 dBm Max ¹				
Load VSWR Protection	4 : 1: Max ²			Foldback @ preset limit	
Sample Port Coupling (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	481 x 133.3 x 560 mm	3U, excluding handles
Weight	15 kg.	
RF Conn. In / Out / Sample (optional)	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: 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

4 2U high for basic unit with no DMC option

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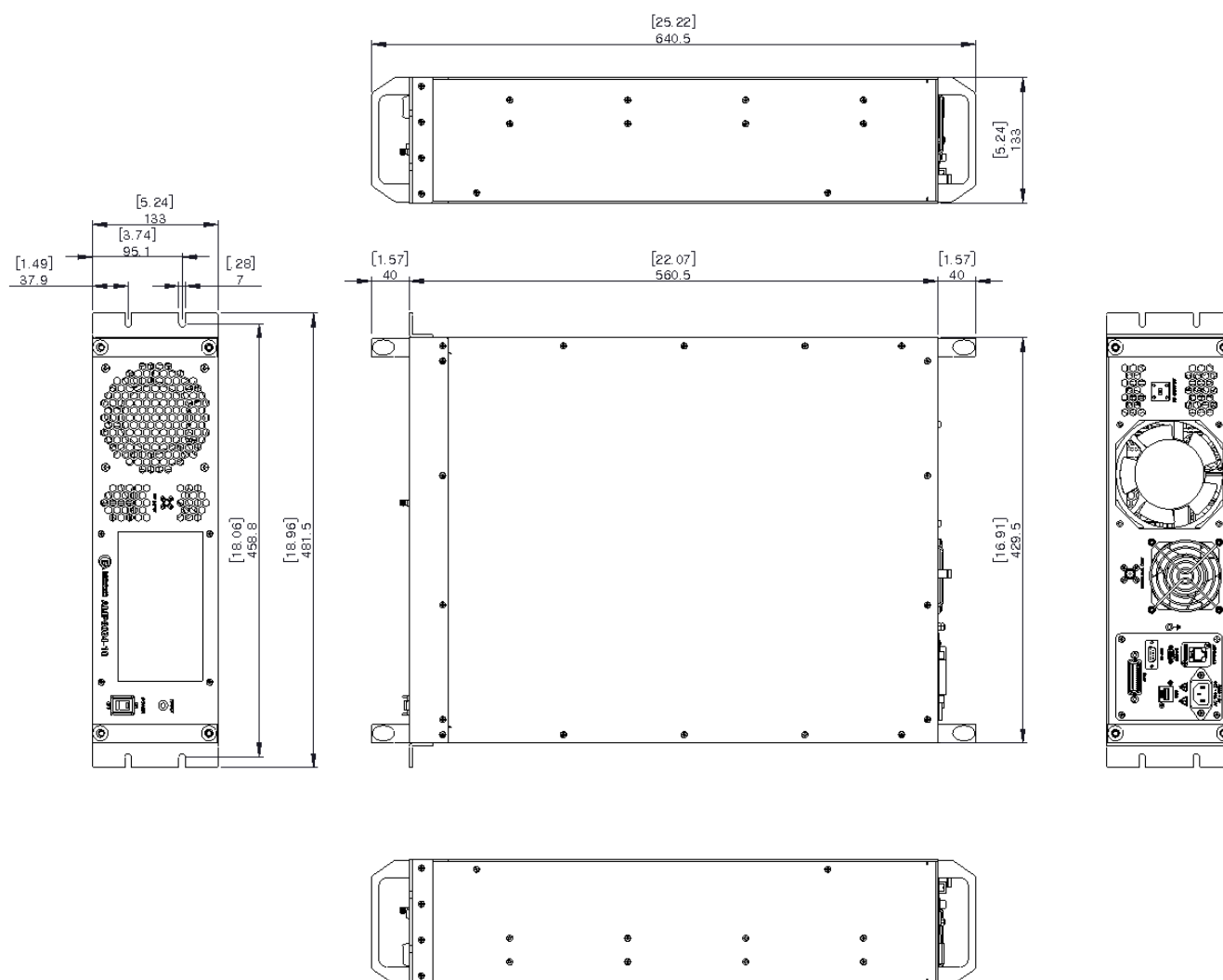
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AVAILABLE SPECIAL OPTIONS

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	11-points standard ⁵

⁵ Consult the factory if additional points are required.

OUTLINE DRAWING SHOWN WITH LCD DIGITAL CONTROLLER 3U



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OUTLINE DRAWING

BASIC UNIT SHOWN WITH MANUAL GAIN ADJUSTMENT 2U

