



AMP2027DB 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
Band	A	B	
Operating Frequency Band	100 - 1000 MHz	1.0 - 6.0 GHz	Band switching @ 15 mS Max
Power Output CW	10 Watt Min		CW or Pulse
Power Gain	40 dB Min		0dBm or less for rated Pout
Power Gain Flatness	4.0 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		30dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		47 - 63 Hz
Power Consumption	250 Watt Max		At rated Pout
Input Power Protection	+10 dBm Max ¹		
Load VSWR Protection	4 : 1: Max ²		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 ³	

3 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D (No display with DMC)	430 x 88 x 700 mm	2U, excluding handles
Dimensions W x H x D (with Option DMC)	430 x 133.3 x 700 mm	3U, excluding handles
Weight	(2U/10 kg.) (3U/14kg.)	
RF Conn. In / Out / Sample (optional)	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
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

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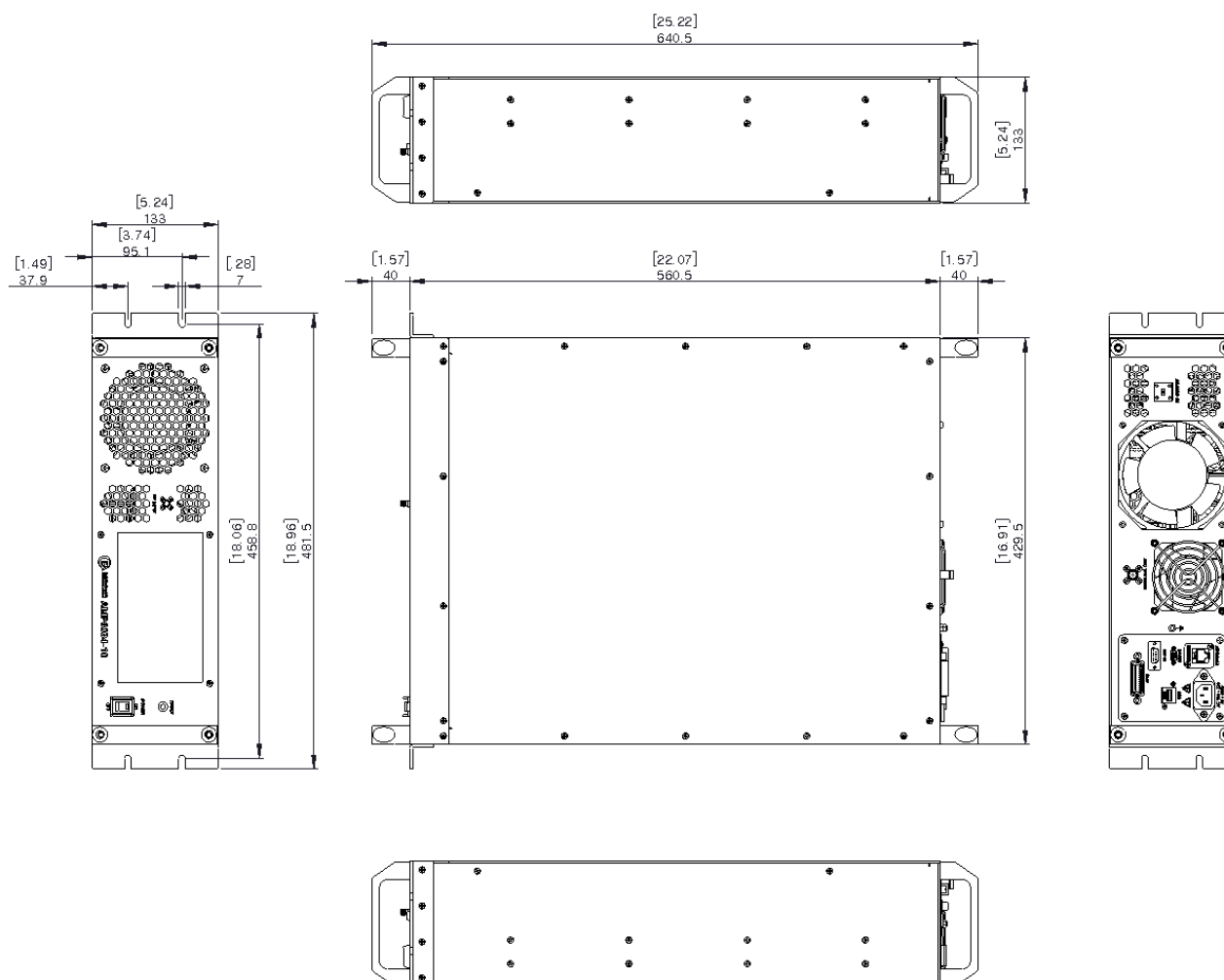
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AVAILABLE SPECIAL OPTIONS

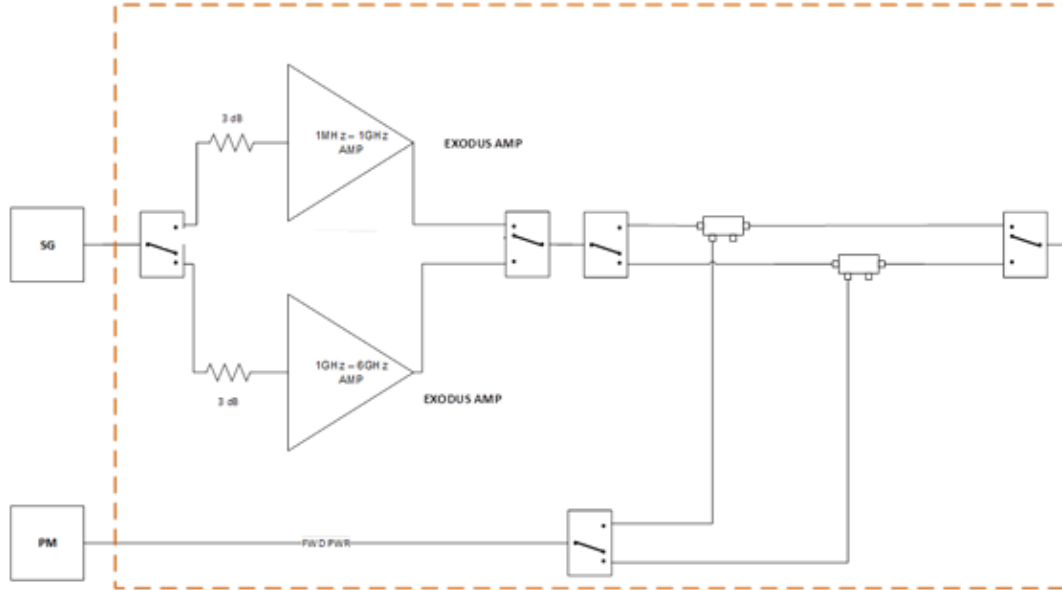
Parameter	Specification	Notes
Option FRS: Forward RF Sample	-40dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-40dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	11-points standard ⁴

⁴ Consult with factory if additional points would be required

OUTLINE DRAWING-3U SHOWN WITH LCD DIGITAL CONTROLLER



BLOCK DIAGRAM



OUTLINE DRAWING-2U

BASIC MODEL, NO DISPLAY WITH DMC OPTION

