AMP2107DB
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	**Band A**	**Band B**	
Operating Frequency Band	0.5 - 6 GHz	6 - 18 GHz	Band switching @ 15 mS Max
Power Output @ Psat	20 Watt Min	10 Watt Min	CW
Power Gain	43 dB Min		0dBm or less for rated Pout
Power Gain Flatness	4.0 dB p-p Max	6.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max		
2-Tone Intermodulation (IMD)	-30 dBc Typ		33 / 30dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ[1]		At rated Pout
Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		47 - 63 Hz
Power Consumption	300 Watt Max		At rated Pout
Input Power Protection	+3 dBm Max[2]		
Load VSWR Protection	5 : 1 Max[3]		Foldback @ preset limit

1 -13dBc to -15dBc @ 500MHz
2 Units with optional digital monitor and control, for basic units <10 Sec without damage
3 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[4]	

4 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 560 mm	2U, excluding handles
Weight	12 kg.	
RF Connectors In / Out	Type-N Female	Front or rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	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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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 with factory if additional points would be required.

OUTLINE DRAWING-3U

SHOWN WITH LCD DIGITAL CONTROLLER