HD35199
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI, lab, CW/Pulse-Radar and communication applications
Pulse Radar testing with High-Speed Gating Control
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	20 - 300 MHz				
Power Output @ Psat or Peak Pulse	250 Watt Min / 300 Watt Typ			CW or Pulse	
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Droop**	**RF Rise/Fall**
	100 nS to CW	up to CW	up to 150 kHz	0.5 dB Typ[3]	25 nS Typ
Pulse-to-Pulse: Jitter/Width/Stability	5 nS Typ	5 nS Typ	0.2 dB		
Power Gain	54 dB Min				
Power Gain Flatness	3.0 dB p-p Max			Constant input power	
Input Return Loss	-10 dB Max				
2-Tone Intermodulation (IMD)	<-30 dBc Typ			44dBm/Tone, Δ = 1MHz	
Harmonics	<-15 dBc Typ (reduce as freq. increases)			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Output Power @ Off / Delay	-140 dBm/Hz Max / 250 nS Typ			TTL Gate Control	
Operating Voltage	100 - 240 VAC				
Power Consumption	1500 Watt Max			At rated Pout	
Input Power Protection	+10 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	

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
3 Droop <0.5dB Typ @100µS & 0.1dB/10usec max

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

338 Jericho Tpk, Unit 387 Syosset, NY 11791 Phone: 631-588-3877
www.rfamplifiers.com sales@hdcom.com www.rfcomp.com
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

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MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	482 x 133 x 560 mm	3U, excluding handles
Weight	25 Kg. Max	
RF Conn. In / Out / Sample (optional)	N-Female	Front or rear panel
Gate Control (Positive Rising TTL)	BNC Female	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent / Rear panel
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control[5] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, **OPTIONAL**: Safety Interlock	Ethernet RJ-45 TCP/IP, RS422/485, USB Open=STBY/Short=RFON	 BNC Female on rear panel

5 DMC option may reduce Pout by 1dB.

AVAILABLE SPECIAL OPTIONS

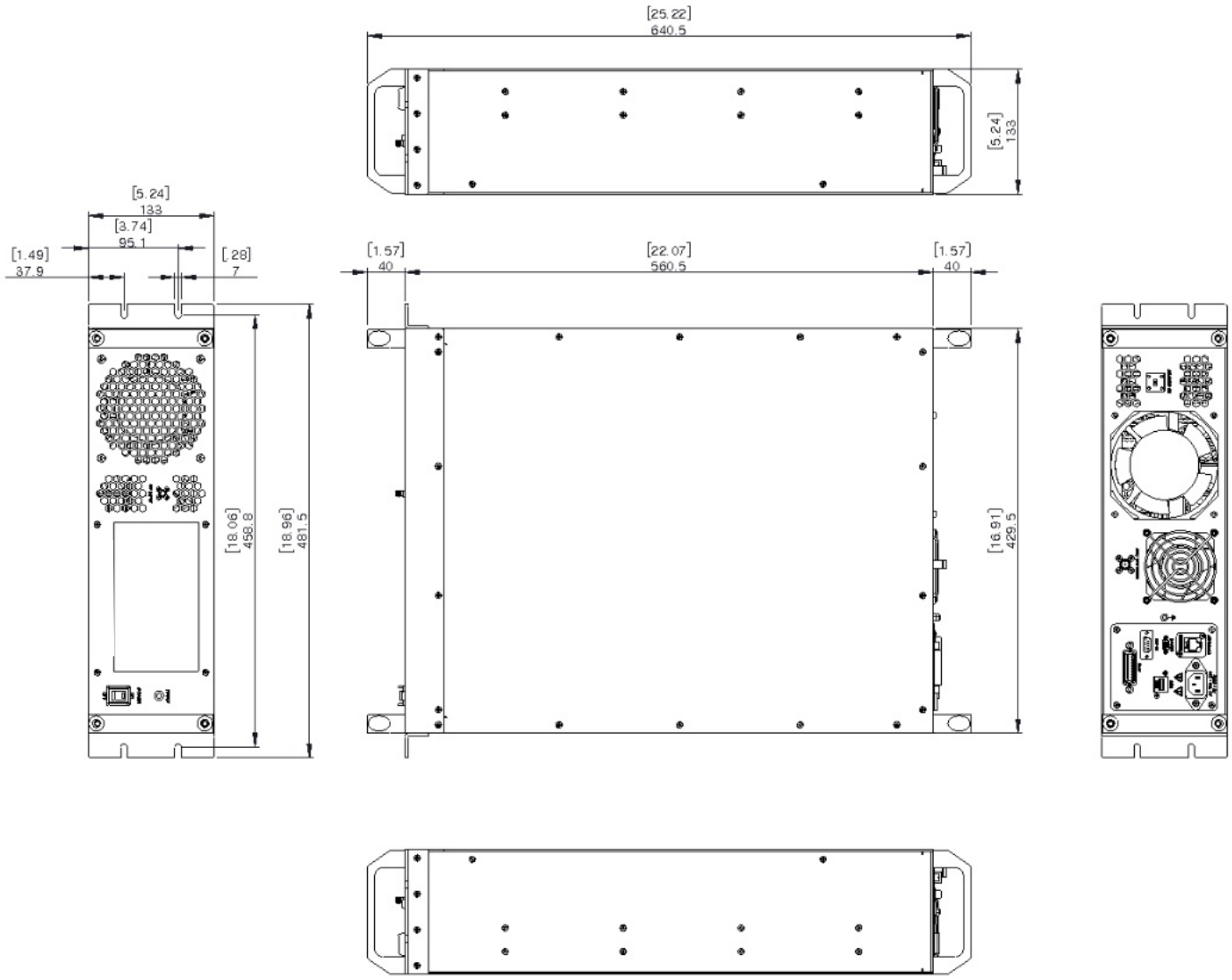
Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-50dB, Type N-Female	Front or rear panel
Option GPIB: GPIB remote control	GPIB IEEE-488 Remote capability	
Included CPM: Calibrated Power Monitoring (With purchase of Option DMC)	Offset correction entry for +/- 0.2dB accuracy	7-points standard[6]
Option LC: Built in Quiet-Cool	Close circuit Air-liquid cooling	60 dBA Typ

6 Consult the factory if additional points are required

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OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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