HD35138
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for EMI/RFI, lab, HIRF/L-Band Pulse applications
Small form factor rack-mounted system
Class AB linear advanced technology design
Instantaneous L-Band bandwidth
Linear high peak pulse applications
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	1.0 - 2.0 GHz				
Power Output @ Pulse	1000 Watt Min			Peak Pulse	
Power Gain	60 dB Min			0dBm or less for Rated Power	
Power Gain Flatness	3.0 dB p-p Max			Constant input power	
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**
	up to 100 µS	up to 10 %	100 kHz	<50nS Typ	<1 dB
Input Return Loss	-10 dB Max				
Harmonics	-20 dBc Typ			At rated output power	
Spurious	-60 dBc Max			Non-harmonics	
Output Power On/Off Ratio	80 dB			TTL Gate Control	
Operating Voltage	100 - 240 VAC			50 - 60Hz	
Power Consumption	700 Watts Max			At rated Pout, 100µS 10%	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	4 : 1: Max[2]			Foldback @ preset limit	
Sample Port (optional)	-60 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 131 x 630 mm	3U, excluding handles
Weight	25 Kg. Nom	
RF Connectors In/Out/Sample (optional)	Type-N Female	Front or rear panel
Gate Control	BNC Female	Front 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

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.

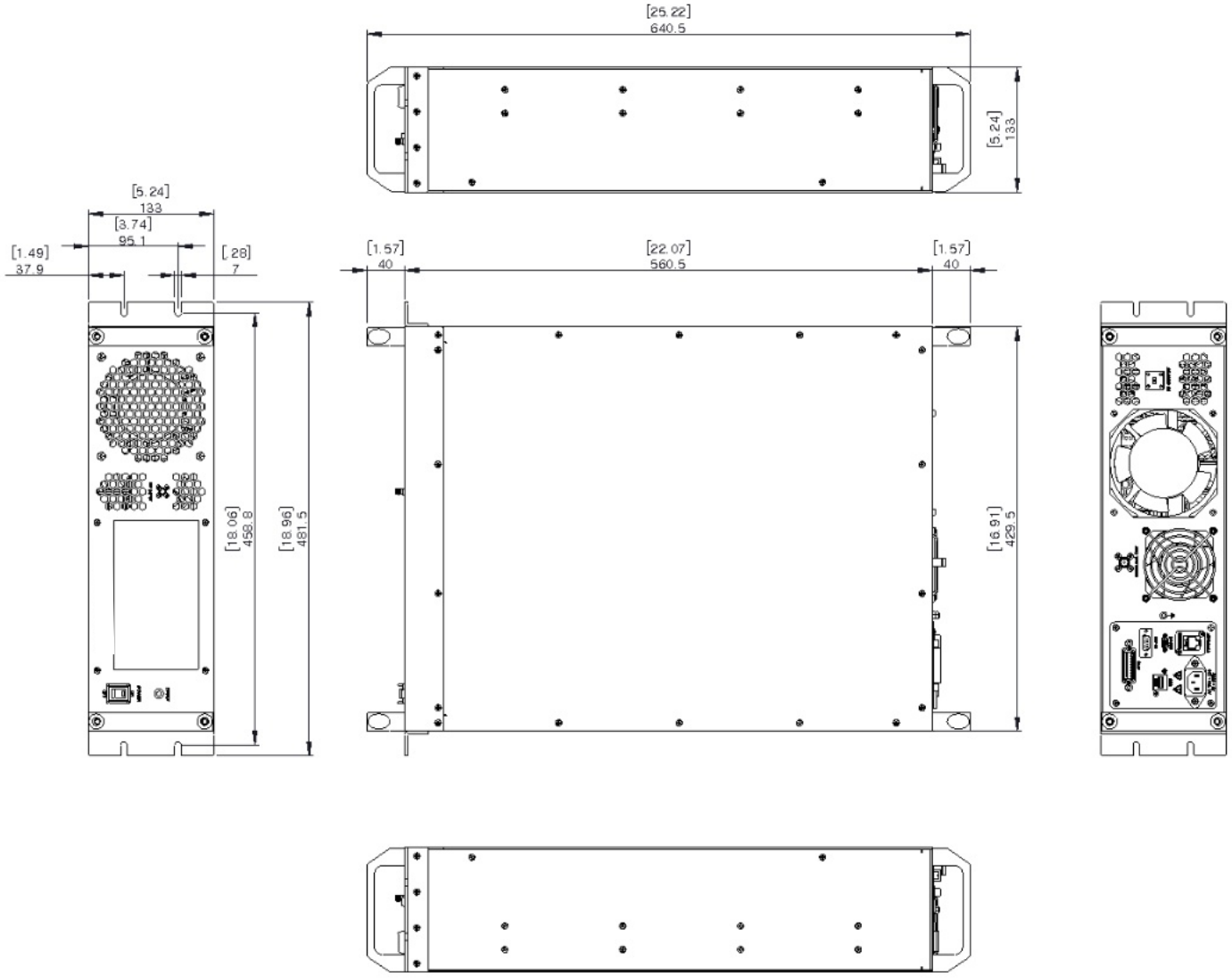
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, 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	5-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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