HD33515
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor, rack mounted system.
Instantaneous VHF & UHF wide bandwidth
Class AB linear LDMOS design
High power advanced technology devices
Suitable for high power long pulse standards
Built-in protection circuits, with extensive monitoring
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	120 - 610 MHz				
Power Output @ Pulse	1000 Watt Min			Peak Pulse	
Pulse Characteristics	**Width**	**Duty**	**Droop**	**Rise / Fall**	**Droop**
	up to 5 µS	15 % Max	up to 100 KHz	<50 ns Typ	<1 dB
Power Gain	60 dB Min			0dBm or less for rated Pout	
Power Gain Flatness	3 dB p-p			Constant input power	
Gain Adjustment Range	20 dB Min			Local or remote capable	
Input Return Loss	-10 dB Max				
Output Power On/Off Ratio	80 dB Max			TTL Gate Control	
Harmonics	-20 dBc Typ			At rated output	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	180 - 240 VAC			50 - 60Hz	
Power Consumption	2 KW Avg Max			At rated output	
Input Power Protection	+8 dBm Max[1]				
Load VSWR Protection	5 : 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

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. Max	
RF Conn. In / Out / Sample (optional)	Type-N (F)	Front or rear panel
Interface Connector	9-Pin D-Sub	Rear panel
Blanking Connectors	BNC (F)	
AC Power	IEC 60320-C14 or L620P (M)	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control[4] FWD, REV, VSWR, GAIN, ALC, V & I, TEMP, Safety Interlock (BNC Female on rear)	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface Safety Interlock, Open=STBY/Short=RFON	IEEE rear panel BNC-F rear panel

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Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

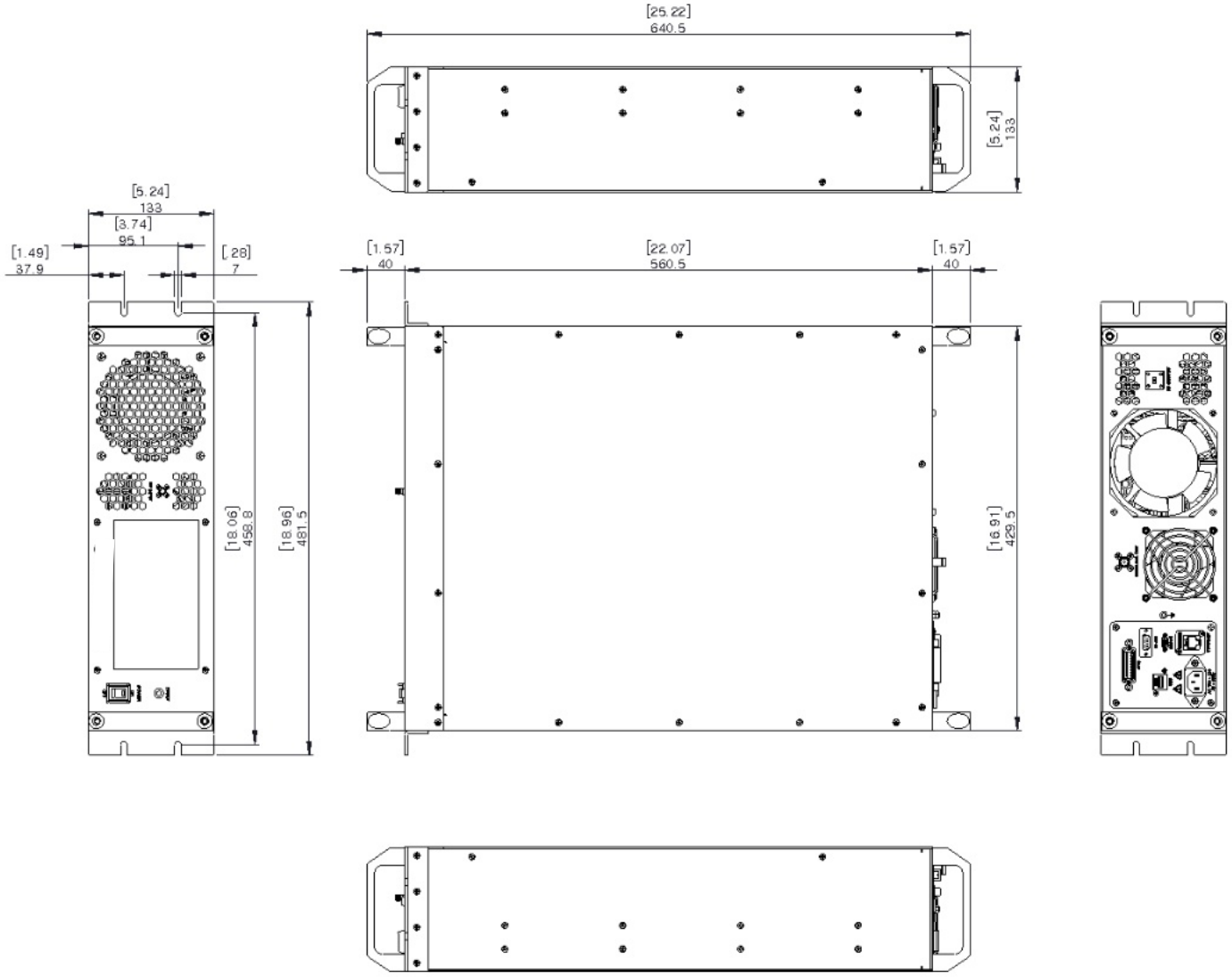
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-50dB, 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	5-points standard[4]

4 Consult the factory if additional points are required.

OUTLINE DRAWING
SHOWN WITH LCD DIGITAL CONTROLLER



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