HD33384
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB solid-state linear design
Narrow band IFF frequency range
Suitable for L-Band high power pulse applications
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	1030 & 1090 MHz				
Power Output @ Peak Pulse	2000 Watt Min				
Pulse Characteristics	**Duty**	**Width**	**Droop**	**Rise / Fall**	
	0.1 - 4 %	32 µS	<1 dB	<75 nS	
Power Gain	63 dB ± 2.0dB			Pin = 0dBm for Nom Pout	
Power Gain Flatness	1.0 dB p-p Max			Constant input power	
Input Return Loss	-10 dB Max			Relative to 50 Ohm	
Harmonics 2nd	-40 dBc Typ			At rated Pout	
Harmonics 3rd	-40 dBc Max			At rated Pout	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	100 - 240 VAC				
Power Consumption	6 KW Peak Max / 400 Watt Avg Max			2000 Watt with DS = 4 %	
Input Power Protection	+8 dBm Max[1]			<10 Sec without damage	
Load VSWR Protection	10 : 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 (with Option DMC)	430 x 133.3 x 560 mm	3U, excluding handles
Weight	15 kg.	
RF Conn. In / Out / Sample	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
STANDARD: Digital Monitor & Control[4] 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

4 DMC option may reduce Pout by 1dB.

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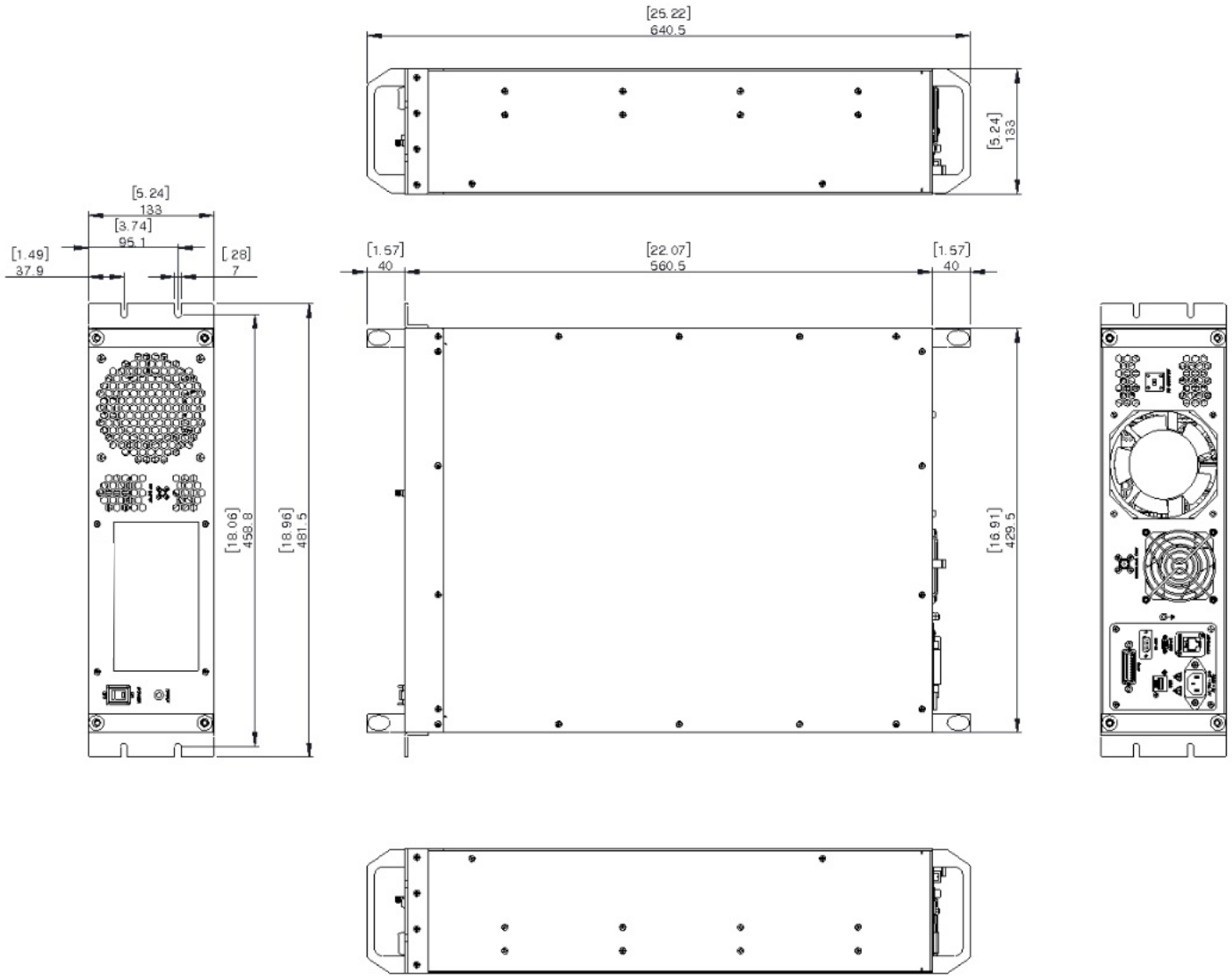
Specifications subject to change without notice.
Specifications and drawings may vary with selected options.

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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-60dB, Type N-Female	Front or rear panel
Option RRS: Reflected RF Sample	-60dB, 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	2-points standard[5]

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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