HD35241
SOLID-STATE HIGH-POWER PULSE AMPLIFIER

FEATURES

Rack mounted system
Class AB linear GaN design
Instantaneous wide bandwidth
Designed for broadband EMI/RFI, Lab, Comm., and EW applications
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50 Ω, 25°C

Parameter	Specification			Notes
Operating Frequency Range	17.0 - 17.7 GHz			700MHz BW
Power Output Pulse Peak	100 Watt Min			Pulse
Pulse Characteristics	**Width**	**Duty**	**Droop**	
	0.25 - 50 µS	7 % Nom	<1 dB	
Turn On / Off delay	<250nS / <50nS			
Tx-Gate Pulse Width	0.25 µS Min / 50 µS Max			
Power Gain	50 dB Min			0dBm or less for rated Pout
Power Gain Flatness	2.0 dB p-p Max			
Input / Output Return Loss	-10 dB Max			Relative to 50 Ohm
Harmonics	-30 dBc Max			At rated output
Spurious	-60 dBc Max			Non-harmonics
Operating Voltage	100 - 240 VAC Nom			
Power Consumption	300 Watt Avg. Max			7% Duty @ rated Pout
Input Power Protection	+3 dBm Max			<10 Sec without damage
Load VSWR Protection	∞ : 1			Output Isolator

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[1]	

1 MIL Spec available for quotation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U, excluding handles
Weight	20 Kg. Max	
RF Connectors In/Out	Type-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-consult factory if forward & reflected monitoring are required via the remote GUI

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

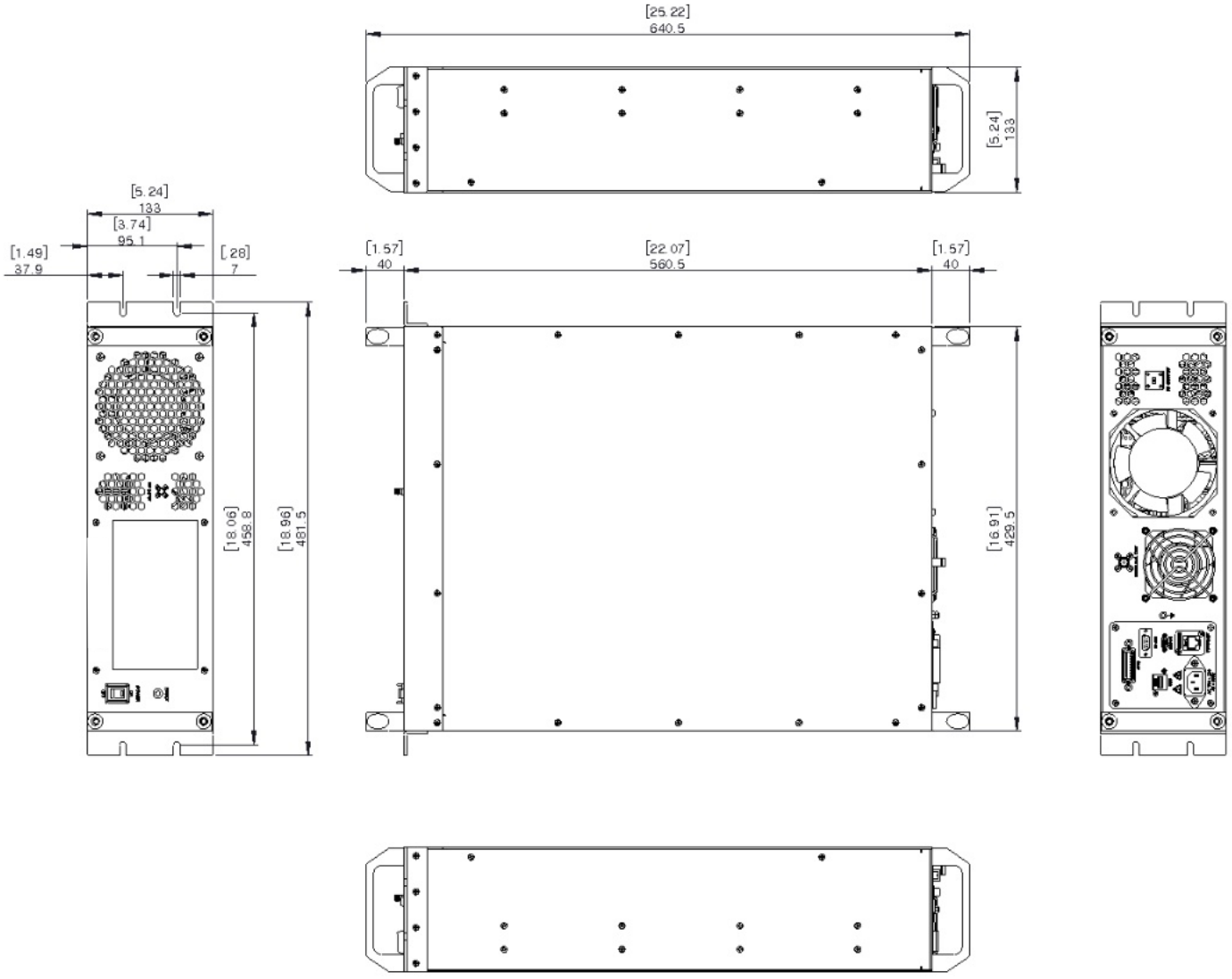
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AVAILABLE SPECIAL OPTIONS

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	5-points standard[5]

5 Consult the factory if additional points are required

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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