HD35258
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Small and light weight rack mounted chassis
Class AB linear GaN hybrid design
Designed for narrow X-Band high power pulse applications
Solid-State Amplifier for TWT Driver
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS : 50Ω, 25°C

Parameter	Specification			Notes		
Operating Frequency	11.3 - 12.1 GHz					
Peak Power Output	200 Watt Min			Peak Pulse		
Power Gain	53 dB Typ			0dBm or less for rated Pout		
Pulse Characteristics	**Width**	**PRF**	**Droop**	**Rise/Fall**		
	5 µS	400 Hz	<0.5 dB	<75 nS		
Pulse to Pulse Phase Jitter	<1 Deg					
Pulse Amplitude Jitter	<1 %					
Input Return Loss	-14 dB Max					
Harmonics	<-30 dBc Typ			At rated output power		
Spurious	-60 dBc Max			Non-harmonics		
Input Power Protection	+6 dBm Max[1]			<10 Sec without damage		
Load VSWR Protection	5 : 1 Max[2]			<1 minute at rated Pout		
Operating Voltage	100 - 240 VAC			50 - 60Hz		
Power Consumption	200 Watt Max			At rated Pout		
Efficiency	15 % Min					

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	430 x 133 x 560 mm	3U, excluding handles
Weight	20 Kg.	
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 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.

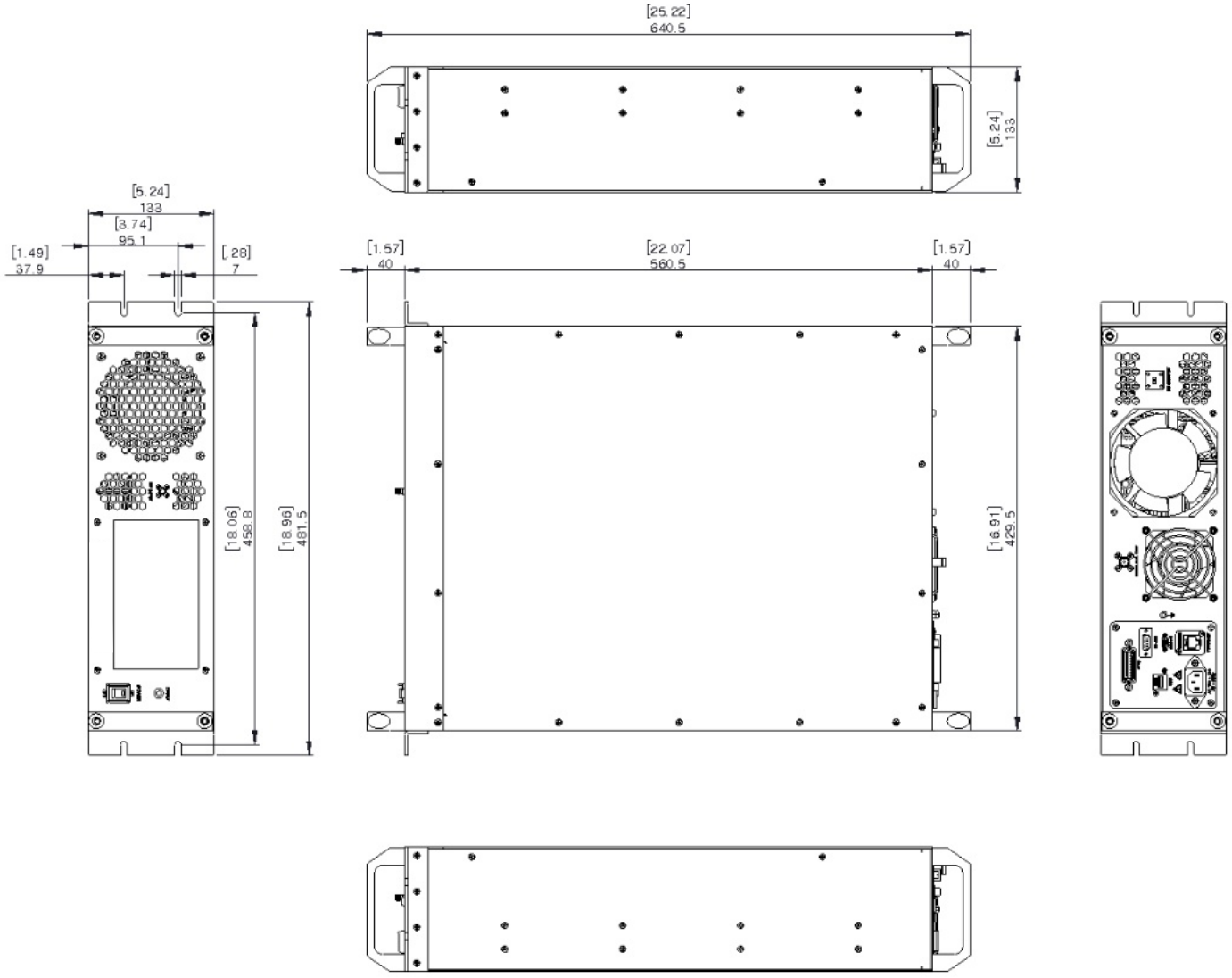
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AVAILABLE SPECIAL OPTIONS

Parameter	Specification	Notes
Option FRS: Forward RF Sample	-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	6-points standard[5]

5 Consult with factory if additional points would be required.

OUTLINE DRAWING
SHOWN WITH OPTIONAL LCD DIGITAL CONTROLLER



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