HD32816
SOLID STATE PULSE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Small form factor rack mounted system
High power Class AB linear GaN pulse design
Suitable for C-Band high power pulse applications
Instantaneous bandwidth
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes	
Operating Frequency Range	5.4 - 5.9 GHz				
Peak Output Power	2 KW Min			@ 10% Duty Cycle	
Output Power Flatness	0.5 dB p-p Max				
Input Power	0 dBm Nom				
Saturated Gain	67 dB Min				
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Droop**	**Rise/Fall**
	1 - 100 µS	10 % Max	250 - 2125 Hz	0.3 dB Max	100 nS Max
Input / Output VSWR	1.3 : 1 / 1.5 : 1			Relative to 50 Ohm	
Harmonics	-30 dBc Max			At rated Output Power	
Spurious	-65 dBc Max			Non-harmonics	
AC Input Voltage	100 - 240 VAC			50/60 Hz	
Efficiency	20 % Typ				
Input Power Protection	+8 dBm Max			<10 Seconds without damage	
Load VSWR Protection	∞ : 1			<1 Minute @ rated output	
Pulse protection	Pulse width, Duty cycle				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	
Storage Temperature	-20 to +70°C	
Relative Humidity	95% @ 40°C	
Altitude	5160 m	

MECHANICAL SPECIFICATIONS

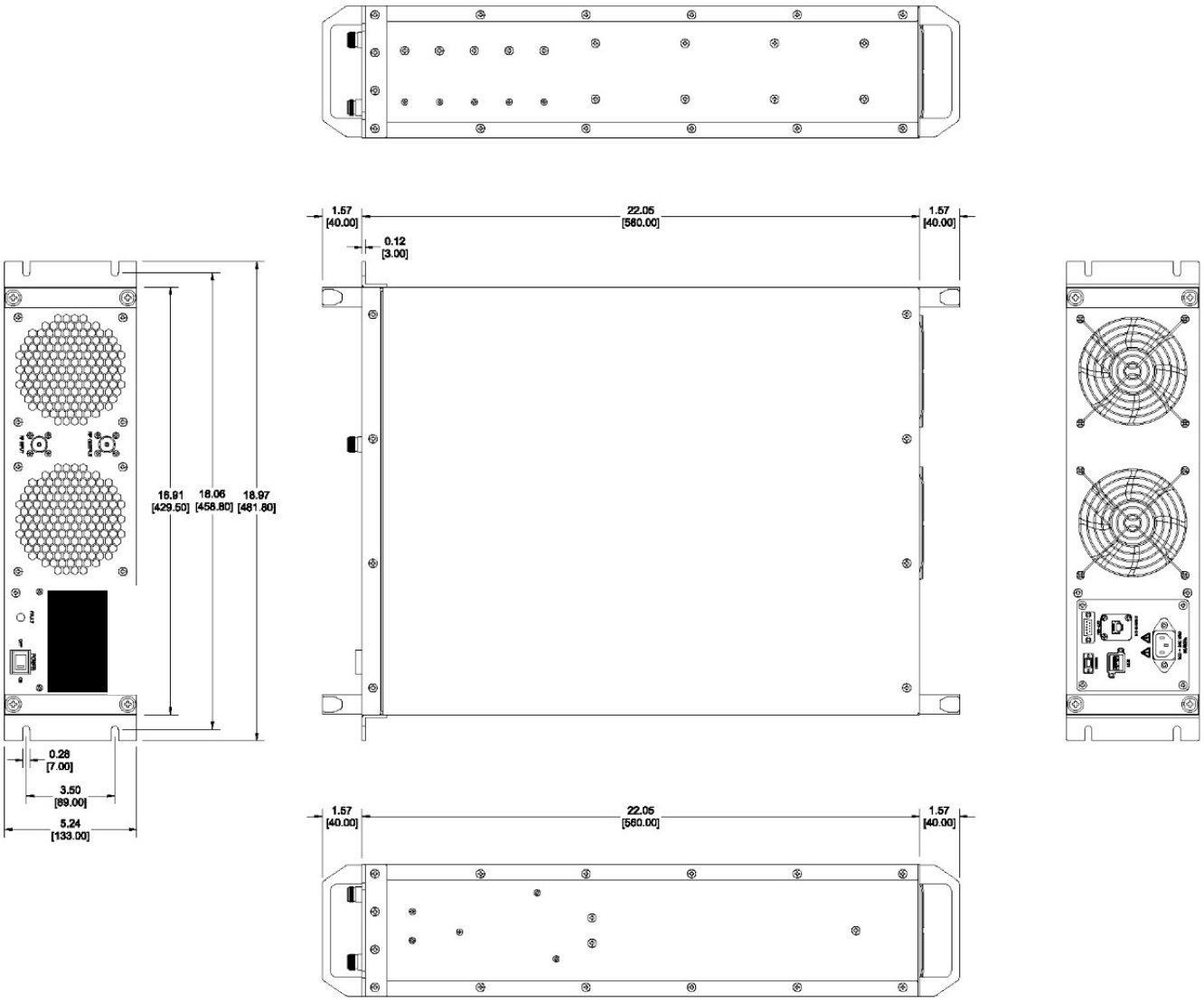
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	20 kg.	
RF Connectors In/Out	Type-N Female / WR187 CPRG 8 holes	Rear panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
AC Power Switch	Circuit Breaker - LED	Front panel
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING



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