HD32125
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Small and light weight bench top chassis
Class AB linear GaN hybrid design
X-Band medium power pulse applications
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Range	8.5 - 10.5 GHz		
Power Output@ Peak Pulse	200 Watt Min		Peak pulse
Pulse Characteristics	**Width**	**Duty**	
	5 - 50 µS	25%	Max
Power Gain	53 dB Min		
Operating Input Power	0 dBm Nom		
Max Input Power	+3 dBm		Without damage
Power Gain Flatness	2.0 dB p-p Max		1.0dB p-p over 500MHz BW
Gain Variation Over Temp	3.0 dB p-p Max		
Input Return Loss	10 dB Min		Relative to 50 Ohm
Harmonics	-20 dBc Typ		At rated Pout
Non-Harmonics Spurious	-60 dBc Max		Non-harmonics
Noise Figure	10 dB Max		
Operating Voltage	115 VAC		400Hz
Power Consumption	450 Watt Max		At rated Pout
Load VSWR Protection	5 : 1		
Muting Speed	2 µS Max		TTL
Cooling	Built-in forced air		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50°C	Automatic shutdown
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Altitude	20,000 feet Min	

MECHANICAL SPECIFICATIONS

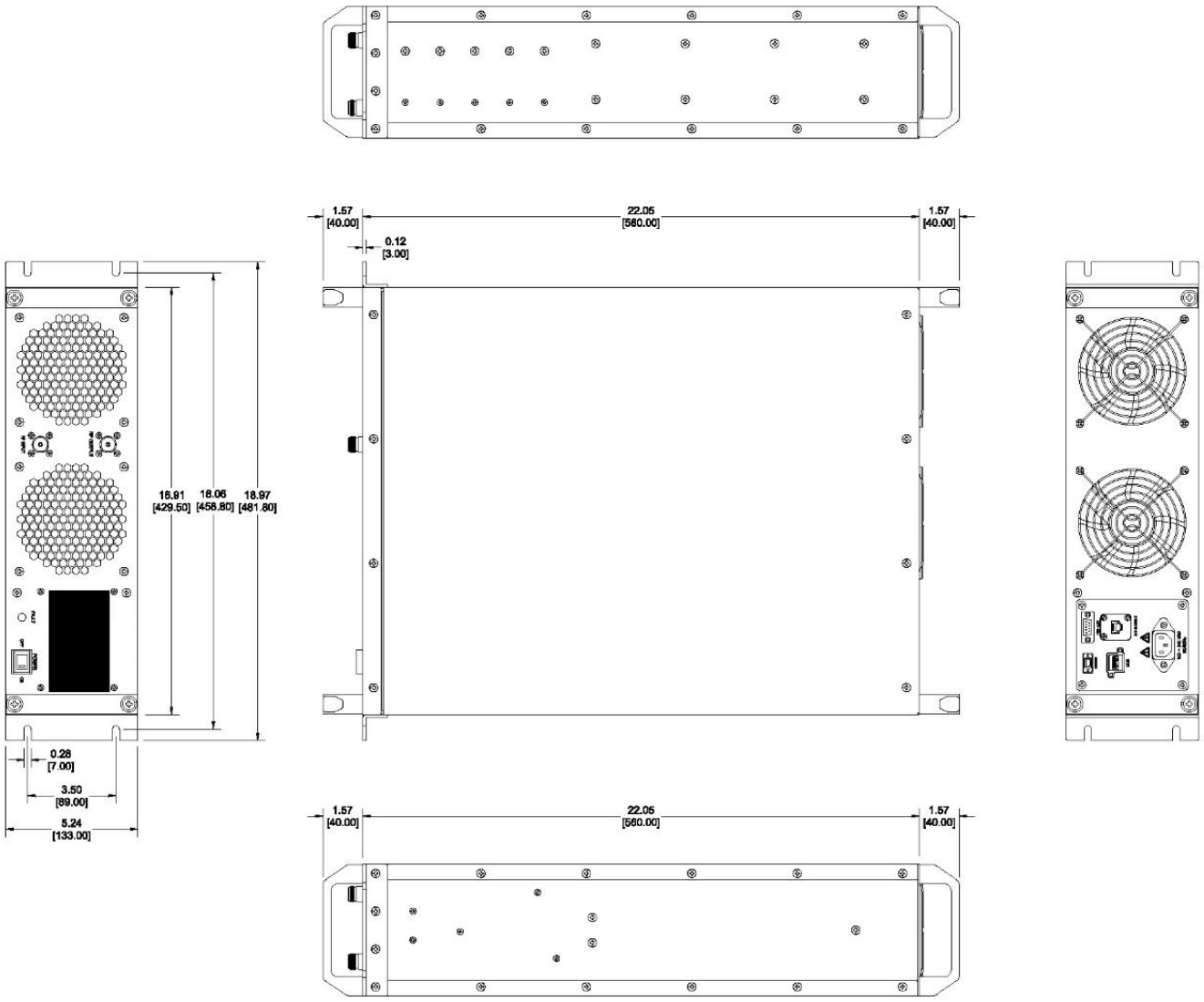
Parameter	Specification	Notes
Dimensions W x H x D	15 x 7 x 17 Inch Max	Excluding handles
Weight	15 lb. Max.	
RF Connectors In/Out	SMA (F) / Type N (F)	
AC Power / Interface Connector	MIL-C-26482 / 9-Pin D-Sub	Can be customized
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 RF Output Sample port (SMA F)	

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OUTLINE DRAWING



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