HD Communications Corp.

HD32116
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Designed for high peak power UHF applications
Class AB linear LDMOS design
Instantaneous bandwidth
Rack mounted system
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	320 - 420 MHz			
Power Output	400 Watt Min			Peak power
Pulse Characteristics	Width	Duty	PRF	
	1.7mS		120Hz	
Power Gain	50 dB Min			
Power Gain Flatness	2.0 dB p-p Max			Constant input power
Input Return Loss	10 dB Min			Relative to 50 Ohm
Harmonics	>20 dBc Typ			At rated output power
Non Harmonics Spurious	>60 dBc			
Operating Voltage	100 - 240 VAC			
Efficiency	20 % Min			At rated Pout
Max Input Power	+10 dBm			Without damage
Load VSWR Protection	∞ : 1			

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensing

MECHANICAL SPECIFICATIONS

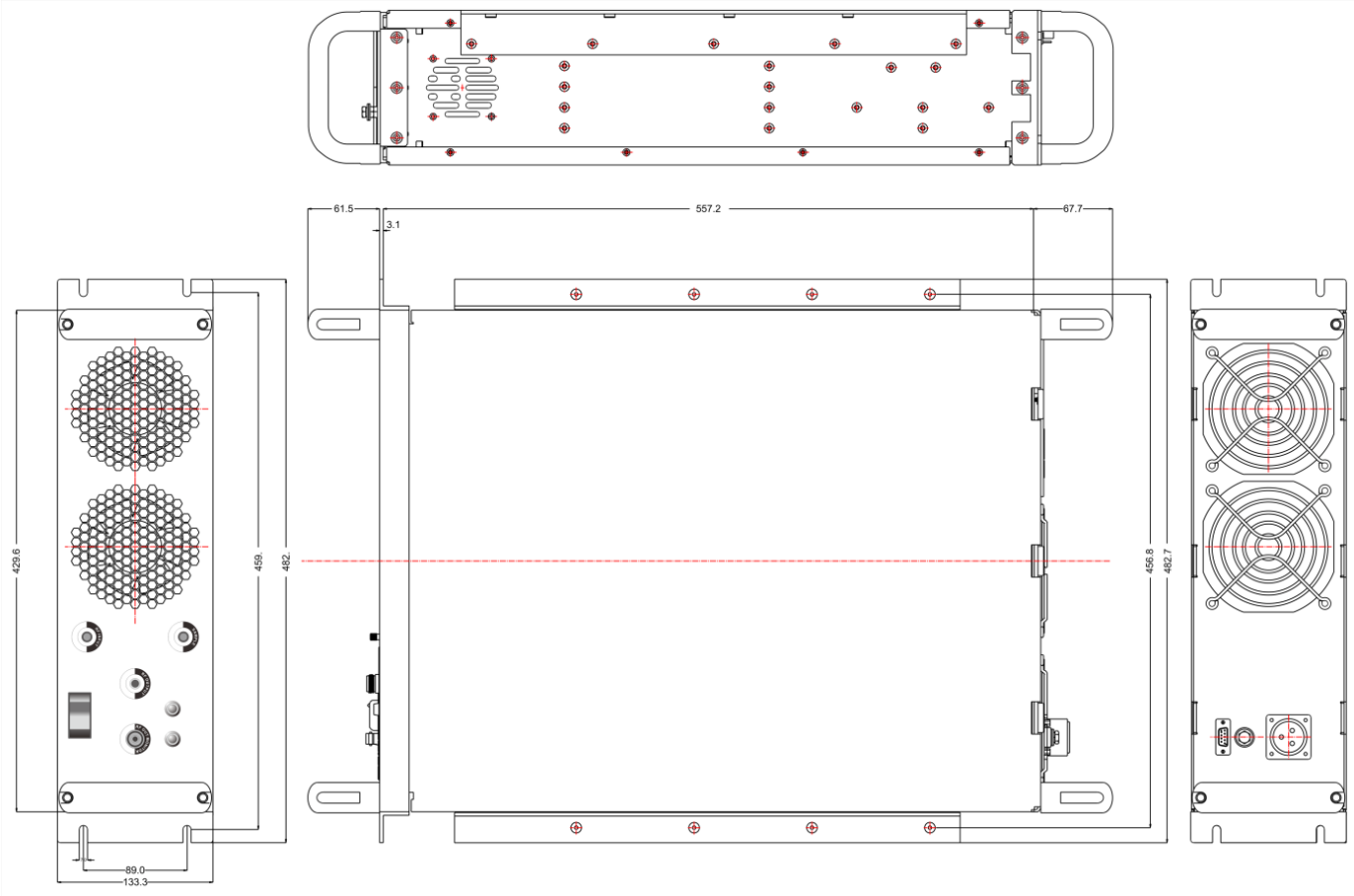
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
OPTION: Digital LCD Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy	Remote Bluetooth application
Cooling	Built in Fan Cooling	Variable speed

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OUTLINE DRAWING



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