HD30995
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	300 - 500 MHz	
Power Output	250 Watt Min	CW
Power Gain	54 dB Min	
Power Gain Flatness	2.0 dB p-p Max	Constant input power
Gain Variation Over Temperature	±2.0 dB Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	44dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	At rated output power
Non Harmonics Spurious	>60 dBc	
Operating Voltage	100 - 240 VAC	
Power Consumption	1000 Watt Max	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

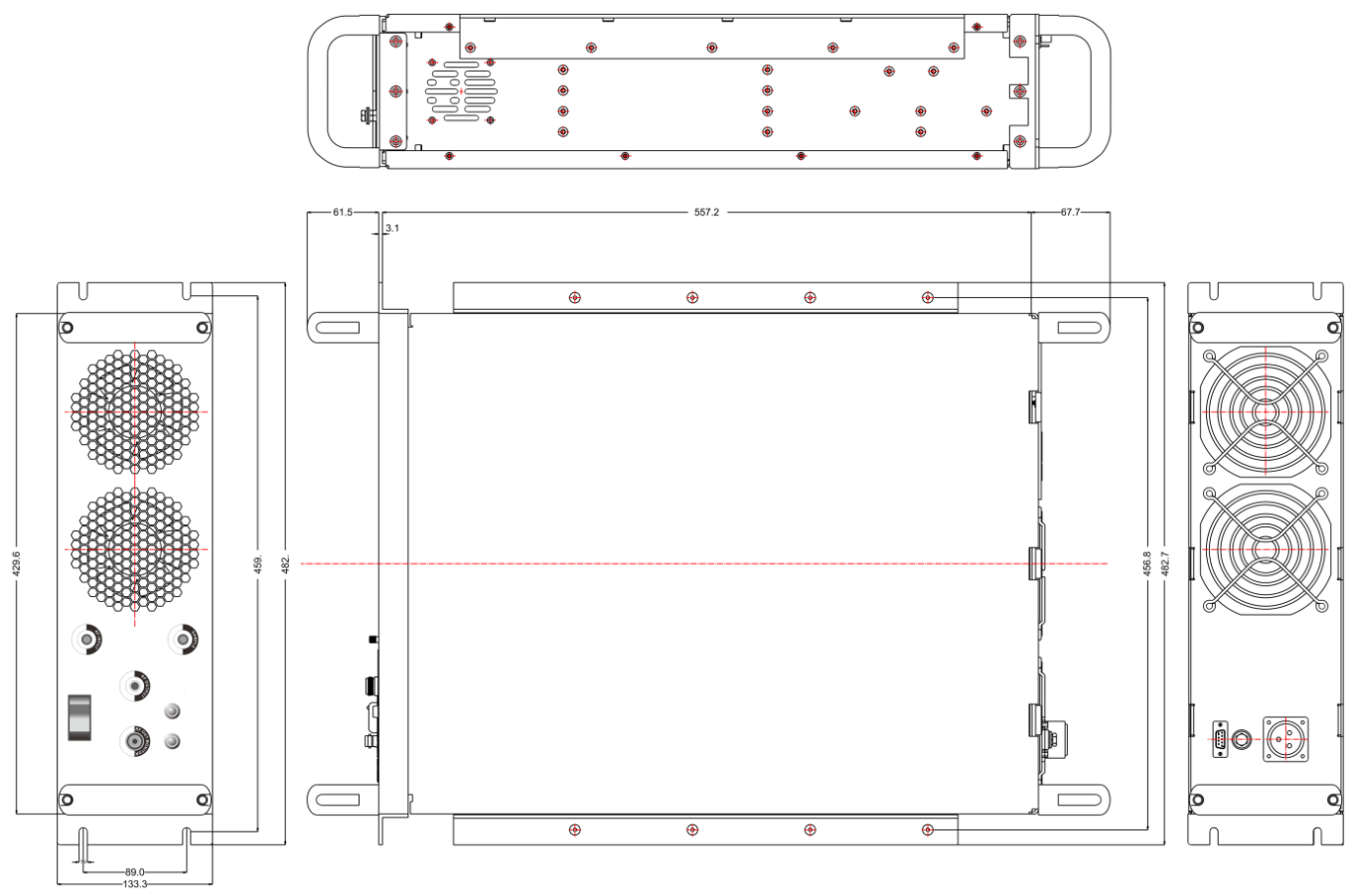
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
OPTION: Digital LCD Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 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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