HD Communications Corp.

HD32015
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	500 - 1200 MHz	
Power Output	1000 Watt Min	CW
Power Output @ P1dB GCP	500 Watt Min / 800 Watt Typ	CW
Power Gain	60 dB Min	
Gain Adjustment Range	20 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	
Non Harmonics Spurious	60 dBc Min	Non Harmonics
Operating Voltage	180 - 240 VAC	50 - 60 Hz
Power Consumption	4 KW Typ / 5KW Max	At rated Pout
Max Input Power	+8 dBm	Without damage
Load VSWR Protection	∞: 1	
Blanking Speed	20 uS Max	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Shock Vibration	MIL-STD-810F, Method 516.5, Procedure I MIL-STD-810F, Method 514.5, Procedure I	

MECHANICAL SPECIFICATIONS

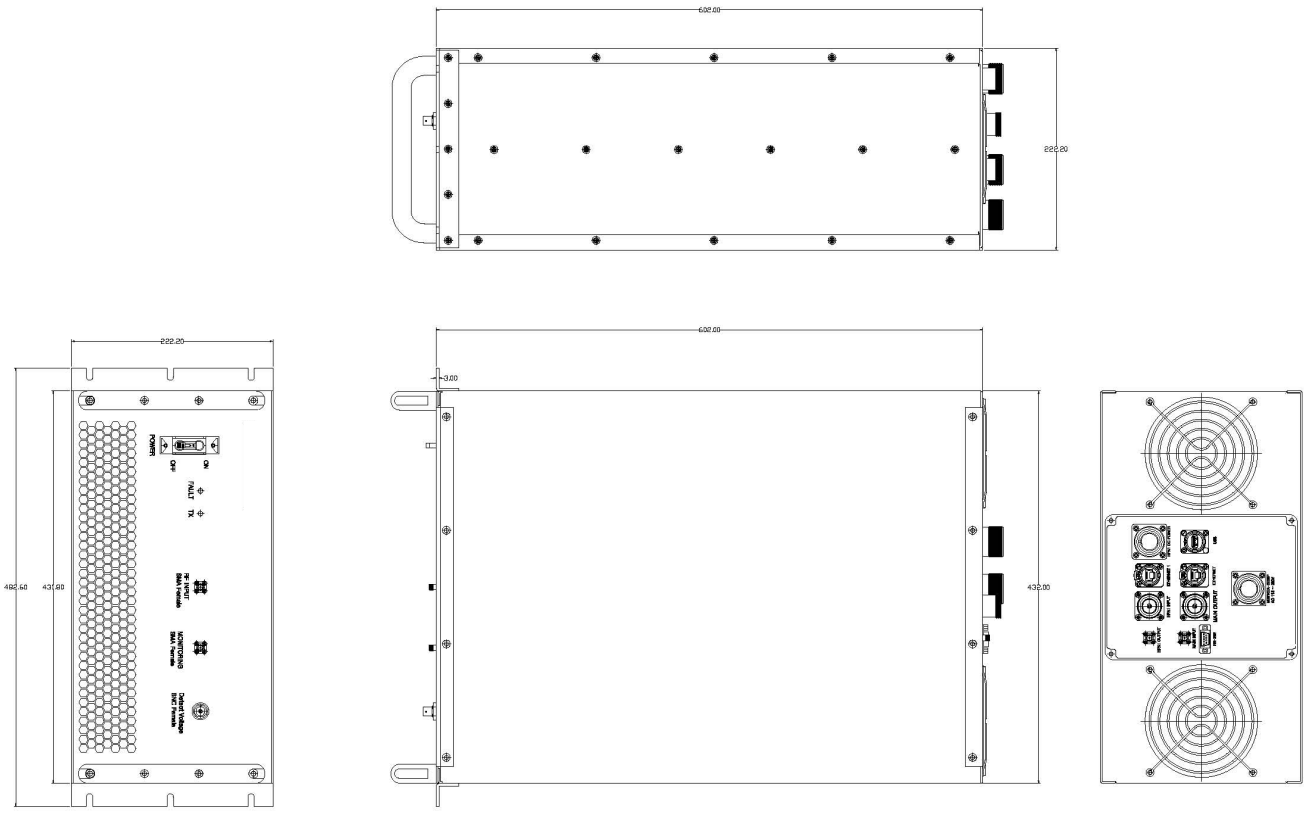
Parameter	Specification	Notes
Dimensions W x H x D	R5U + R3U	Rack Mount Chassis
Weight	60 Kg. Max	
RF Connectors In/Out	Type-N Female	Front Panel Standard
AC Power / Interface	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	

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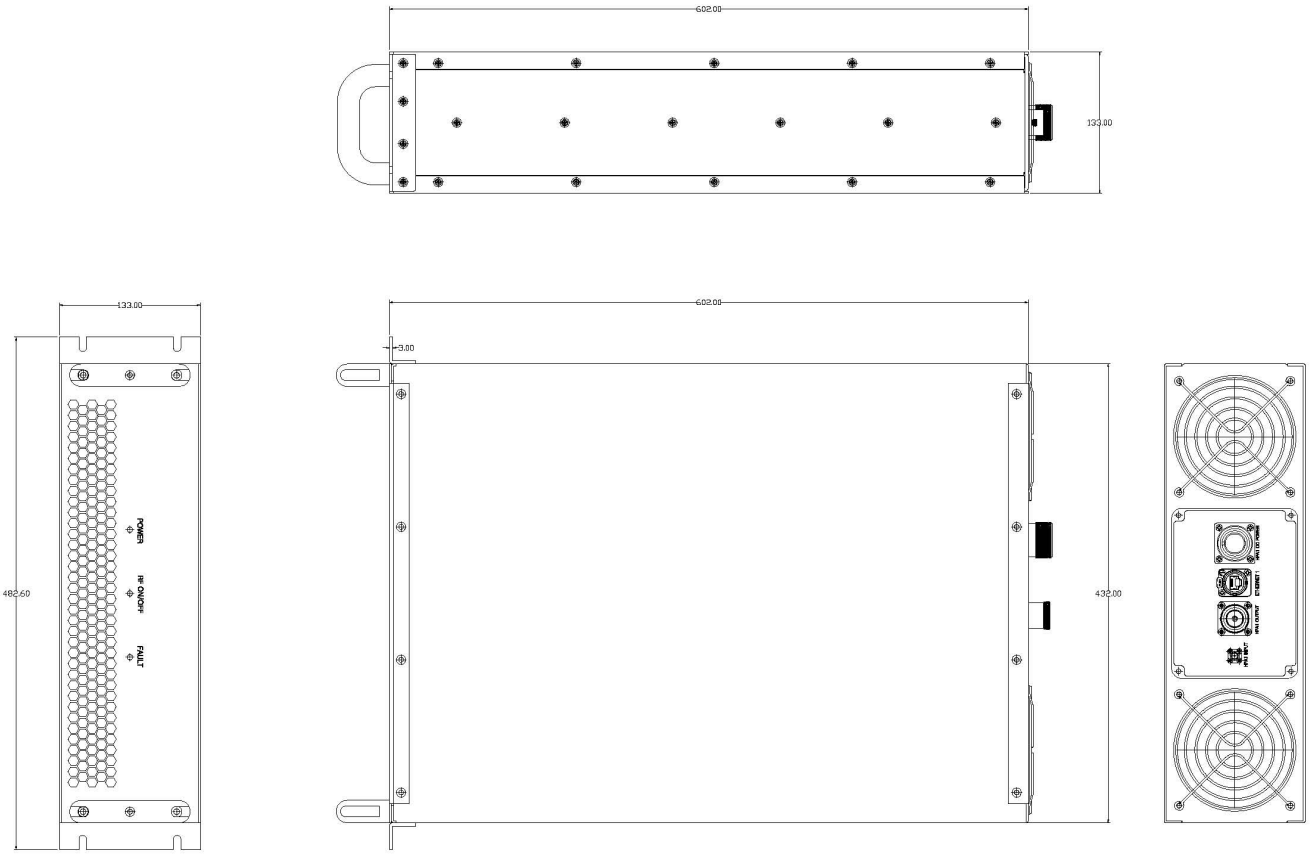
OUTLINE DRAWING



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