HD Communications Corp.

HD32035
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	3 - 30MHz	
Power Output	1000 Watt Min	CW
Power Gain	60 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)	-30dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	
Spurious	60 dBc Min	Non-Harmonics
Operating Voltage	208 VAC	3 phase / 4 wires
Power Consumption	3000 Watt Max	At rated Pout
Max Input Power	+8 dBm	Note 1
Load VSWR Protection	5 : 1	Note 2

Notes:

1. Nominal Input Power is 0dBm. +8dBm is allowed for up to 10Sec with no damage.
2. 1 Minute Max @ rated min Pout

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	25 Kg. Max	
RF Connectors In/Out	SMA (F) /Type-N (F)	Rear Panel Standard
Output Coupling Port	SMA (F)	Front Panel Standard
AC Power	MS3102A22-22P	
I/O Connector	9-Pin D-Sub	See Table
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	Remote Bluetooth application

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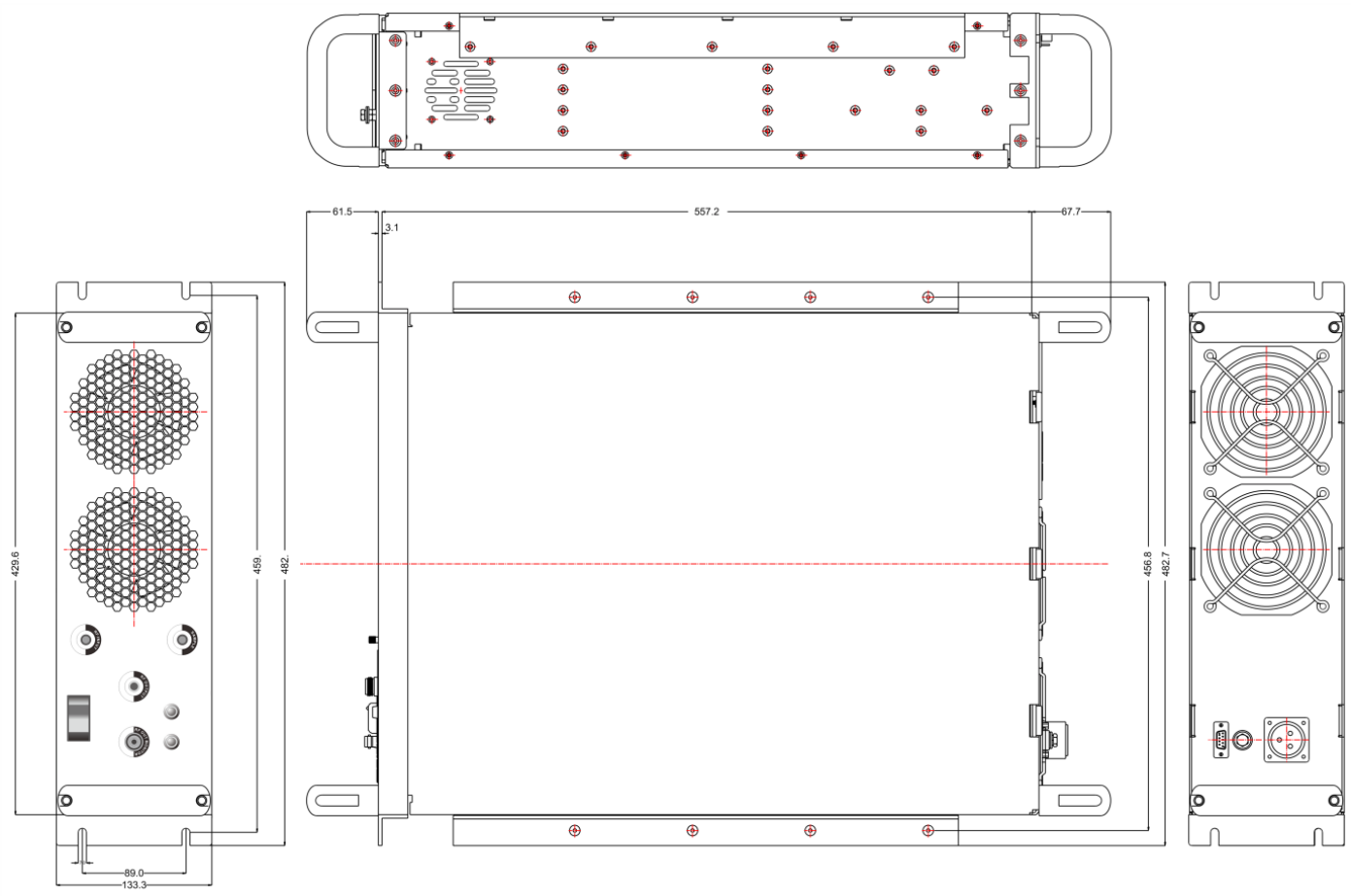
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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	DC Current Sensor	I_D@20mV/100mA Typ
4	Temp Sensor	V_T@10mV/°C + 500mV Typ
5	Shutdown	TTL
6	DC Voltage Sensor	Internal PS voltage
7		N/A
8,9	GND	

OUTLINE DRAWING



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