HD Communications Corp.

HD32033
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Covering the RF frequency range
Class AB linear LDMOS design
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1.5 - 30 MHz	
Power Output	500 Watt Min	CW
Power Gain	57 dBm 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	47dBm/Tone, Δ = 1MHz
Harmonics 2^{nd} / 3^{rd}	-25 dBc / -15 dB Typ	
Spurious	70 dBc Min	Non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	2 KW	At rated Pout
Maximum Input Power Protection	+8 dBm	<10 Seconds
Load VSWR Protection	10 : 1	<1 Minute @ rated output

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	-10 to +50 °C	
Storage Temperature	-20 to +70 °C	
Relative Humidity	5 to 95 % @ 55 °C	Non Condensation
Operating Altitude	10,000 feet	
Vibration	Per MIL-STD-810E, Method 514.5	

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	Type-N female	
AC Power / I/O Connector	IEC 60320-C14 / 9-Pin D-Sub	
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, GPIB Interface	Remote Bluetooth application

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D-SUB CONNECTOR PIN ASSIGNMENT

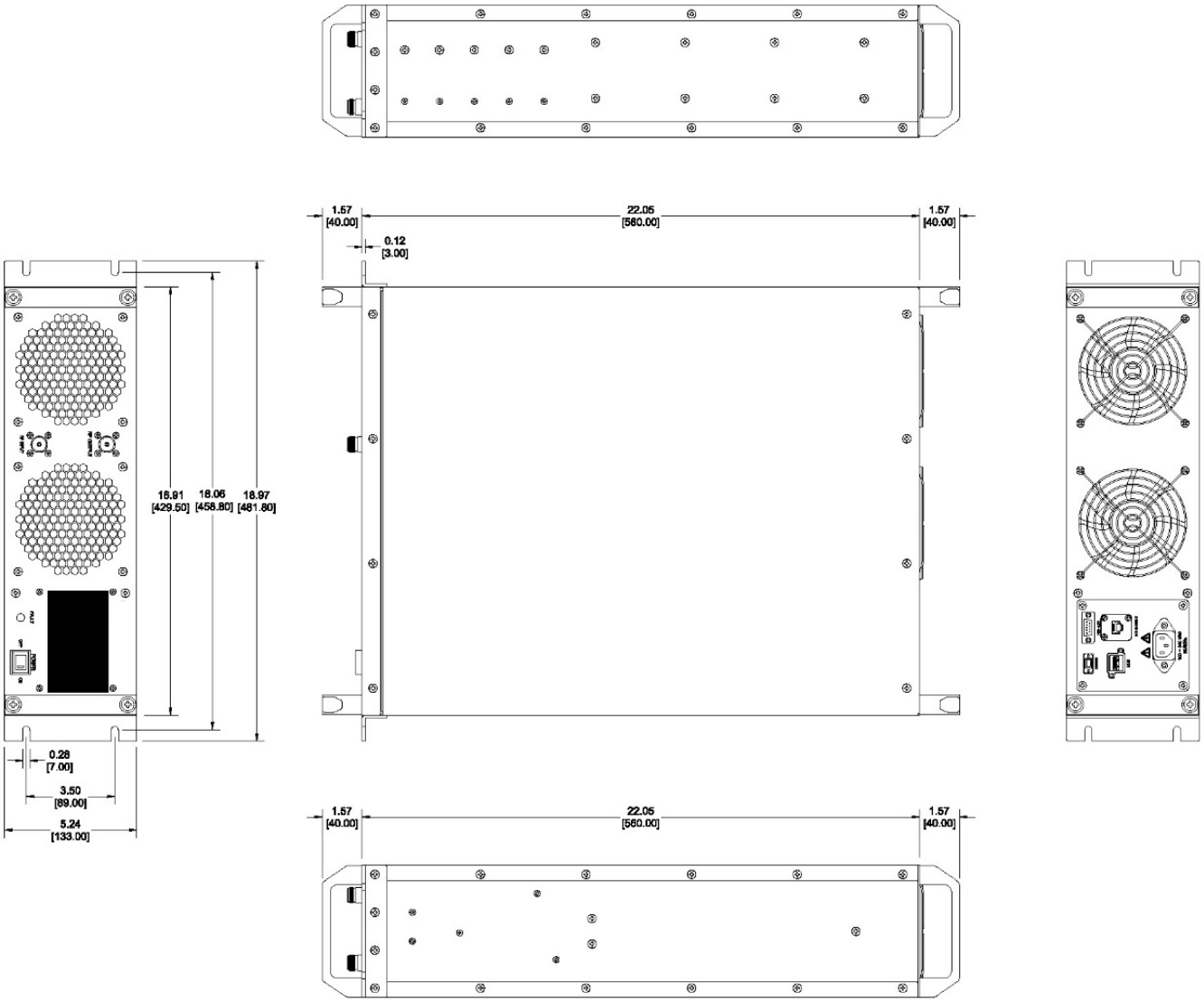
Pin	Function	Description
1		N/A
2		N/A
3	DC Current Sensor	I_D@20mV/100mA Typ
4	Temp Sensor	V_T@10mV/°C + 500mV Typ
5	Shutdown	TTL
6	DC Voltage Sensor	Internal PS voltage
7		N/A
8, 9	GND	

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OUTLINE DRAWING - OPTIONAL LCD DIGITAL CONTROLLER

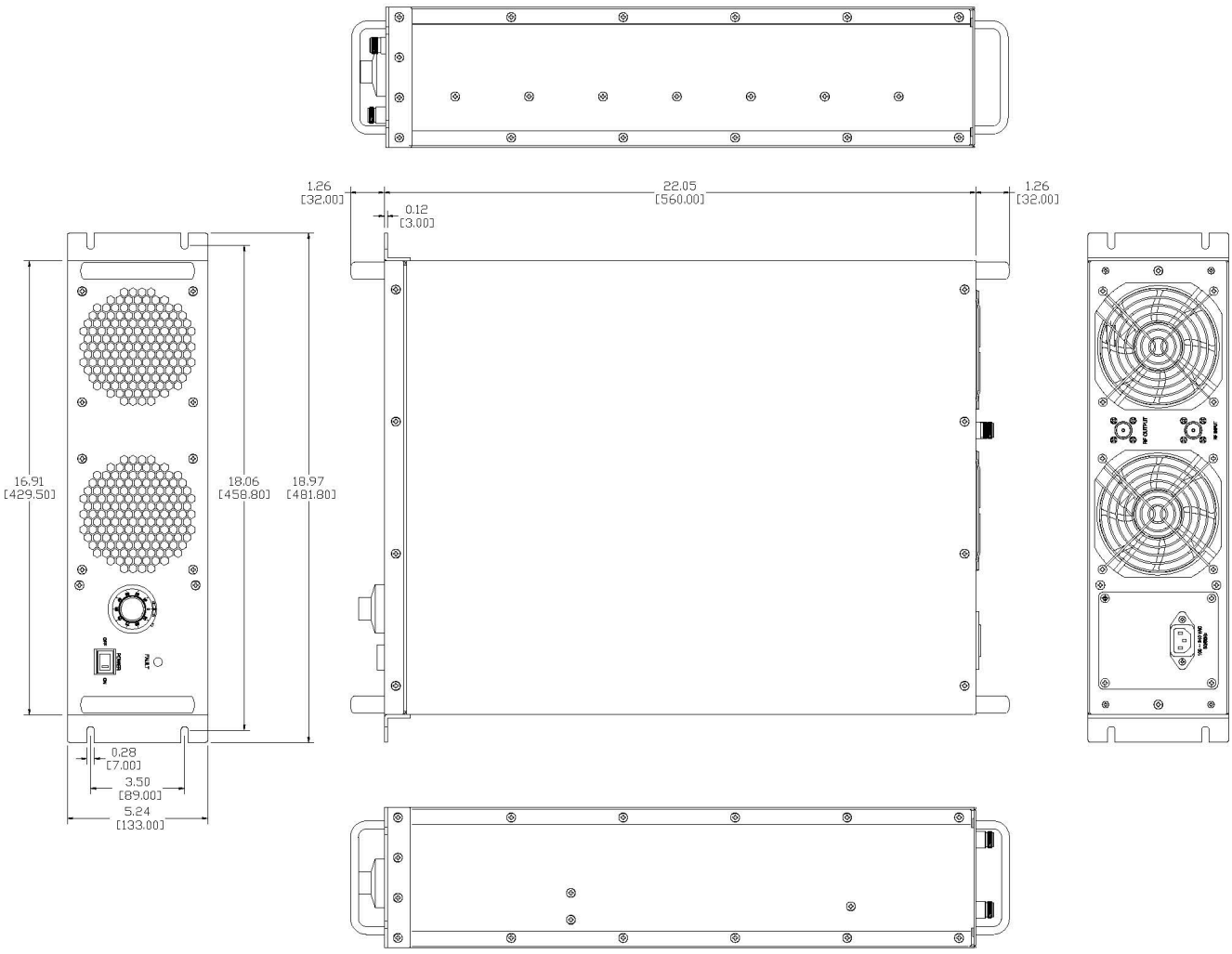


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OUTLINE DRAWING - MANUAL GAIN ADJUSTMENT



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