HD Communications Corp.

HD33385
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	5.82 - 9.24 MHz	Option: 5.5 - 9.6MHz
Power Output	1000 Watt Min	CW
Power Gain	60 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Gain Adjustment Range	30 dB Min	1 - 1000Watt
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	<-30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	-60 dBc Max	Output LPF
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage AC Input	208 VAC +/-10% ,60 Hz, 3 phase/4 wires	50-60 Hz - Single phase
Power Consumption	4000 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Auto shutdown
Coupling	50 dB ±1 dB	

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 x 560 mm	3U
Weight	25 Kg. Max	
RF Connectors In/Out/Coupling	SMA-F / Type-N-F / SMA-F	Rear panel
AC Power	MS3102A22-22P / Mate MS3102A22-22P	Or equivalent
I/O Connector	9-Pin D-Sub	See Table
Cooling	Built in Fan Cooling	Variable speed
INCLUDED: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Remote Bluetooth application

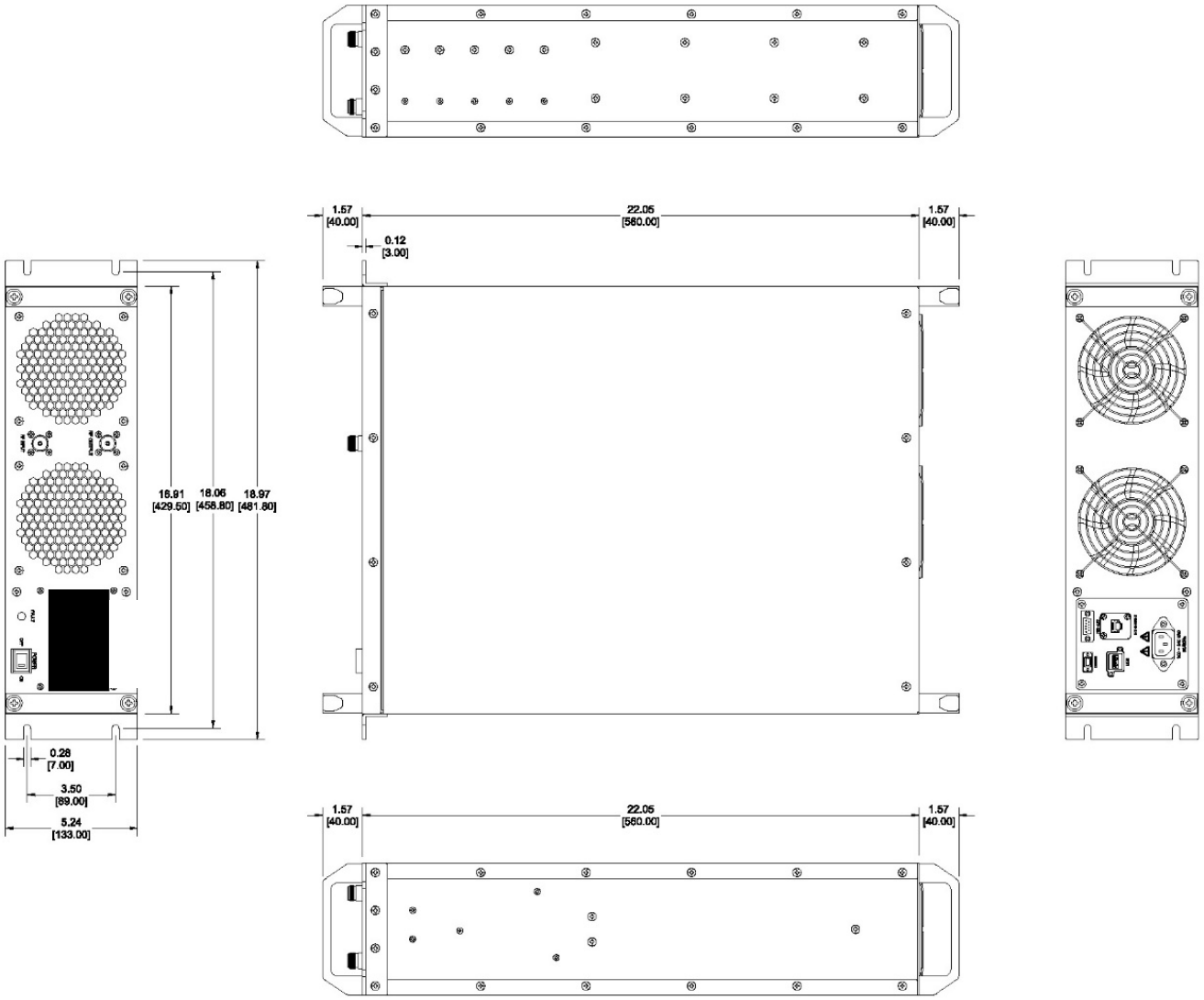
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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	N/A
2	N/C	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/C	N/A
8,9	GND	

OUTLINE DRAWING



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