HD32056
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



FEATURES

Rack mounted system
Class AB linear GaN design
Instantaneous ultra-wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness
Designed for broadband EMI/RFI, Lab, Communication applications

ELECTRICAL SPECIFICATIONS

Parameter		Specification	Notes
Operating Frequency Range		0.7 - 6.0 GHz	
Power Output @ Psat		20 Watt Min	CW
Power Output @ P1dB GCP		15 Watt Min	CW
Power Gain		43 dB Min	
Power Gain Flatness		4.0 dB p-p Max	
Input Return Loss		-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)		-30 dBc Typ	33dBm/Tone, Δ = 1MHz
Harmonics	2^{nd}	-15 dBc Typ <3 GHz / -20 dBc Typ	At rated Pout
	3^{rd}	-30 dBc Typ	
Spurious		-60 dBc Max	Non Harmonics
Operating Voltage		100 - 240 VAC	
Power Consumption		250 Watt Max / 200 Watt Typ	At rated Pout
Input Power Protection		+8 dBm Max	<10 Sec without damage
Load VSWR Protection		∞ : 1	<1 minute at rated 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-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 88 x 562 mm	2U, excluding handles
Weight	9 kg.	
RF Connectors In/Out	Type-N Female	
Sample Port Connector	SMA-Female	
Interface Connector	9-Pin D-Sub	See table pin assignment
AC Power Connector	IEC 60320-C14	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, Optional GPIB Interface	Optional Remote Bluetooth application

332C Dante Ct. Holbrook, NY 11741 Phone: 631-588-3877 Fax: 631-648-0518
www.rfcomp.com www.rfamplifiers.com sales@hdcom.com

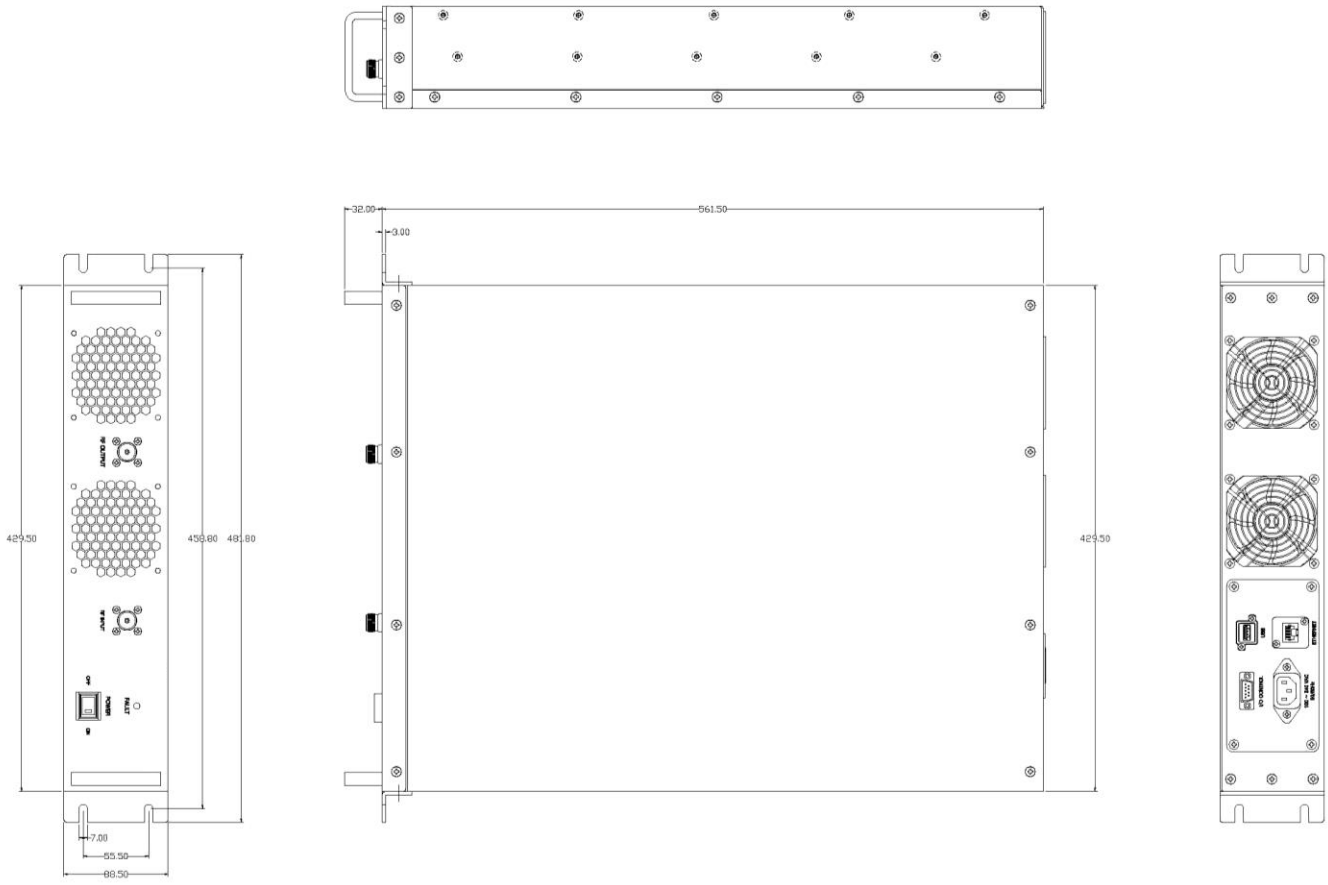
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D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	Reserved	N/C
2	Reserved	N/C
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL - Standby Mode
6	Reserved	N/C
7	Reserved	N/C
8, 9	GND	Ground

OUTLINE DRAWING



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