HD31622
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.



FEATURES

Rack mounted System
Designed for L-Band High Power Pulse applications
Class AB linear LDMOS design
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	950 – 1250 MHz	
Output Power Peak Pulse	3 KW Min, 4 KW Typ	Pulse
Power Gain	65 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Input / Output Return Loss	15 dB / 10 dB Min	
Harmonics	>30 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Pulse Width	100 uS	
Pulse Duty Cycle	10 %	
Pulse Droop	1.0 dB	
Rise & Fall Time	75 nS	
Switching Delay	400 nS Typ	
Noise Figure	10 dB Max	
Operating Voltage	120 - 240 VAC Nom	
Power Consumption	1500 Watt Avg Max	@ 10% duty cycle
Max Input Power Protection	+3 dBm Max	Without damage
Load VSWR Protection	∞ : 1	Output Isolator

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

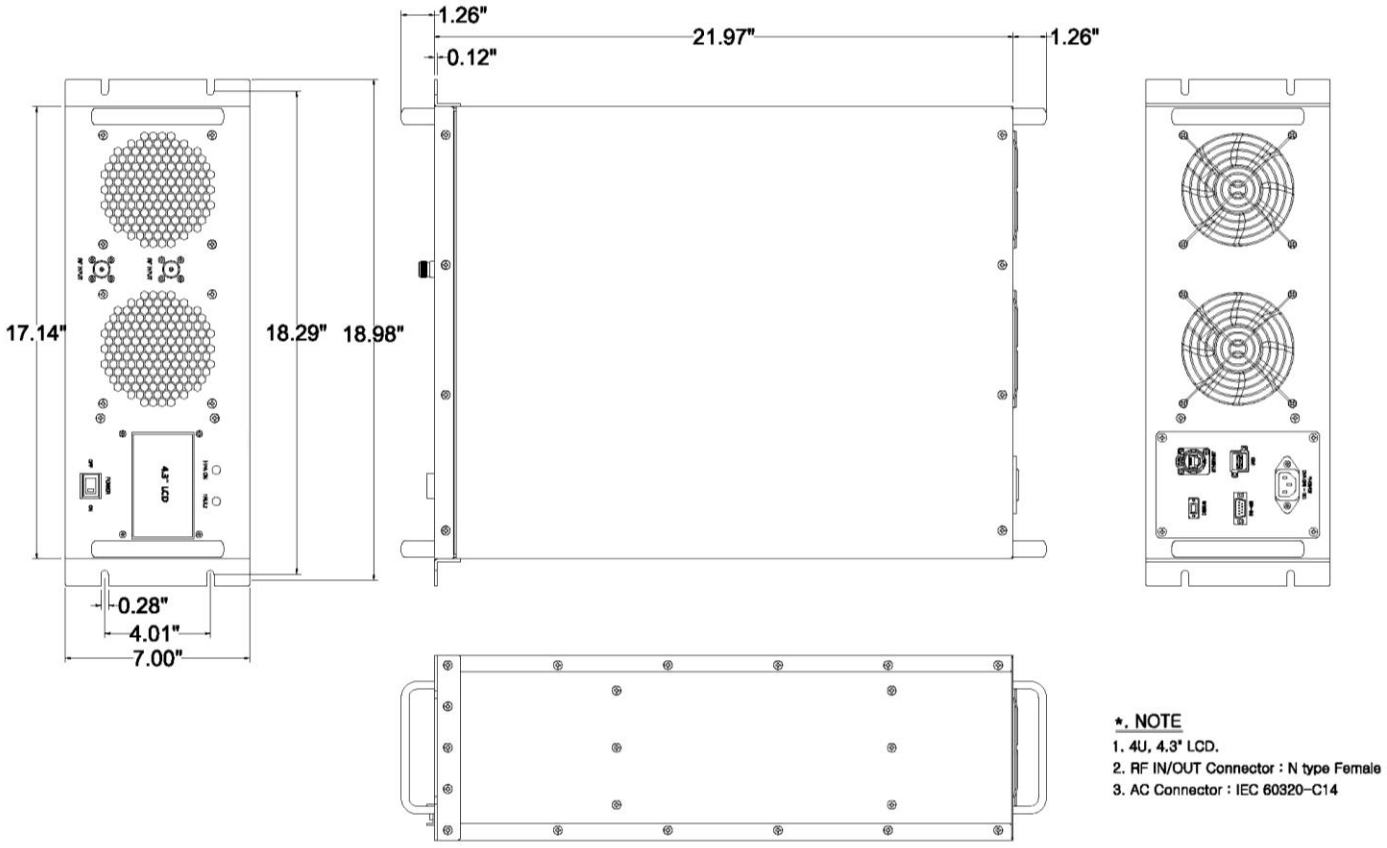
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	19” x 7” x 22” (483 x 178 x 560 mm)	R4U
Weight	65 lb. Max	
RF Connectors In / Out	Type-N Female	Front Panel Standard
Forward and Reflected Sample Ports	Typ-N Female	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 Optional GPIB Interface	Remote Bluetooth application

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

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OUTLINE DRAWING



★. NOTE
1. 4U, 4.3" LCD.
2. RF IN/OUT Connector : N type Female
3. AC Connector : IEC 60320-C14

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