HD31190
SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

FEATURES

Rack mounted system
Class AB linear GaN 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	695 - 3800 MHz	
Power Output @ Psat	250 Watt Typ	CW
Power Output @ P1dB	150 Watt Min / 200 Watt Typ	
Power Gain	54 dB Nom	
Gain Adjustment Range	15 dB Min	
Power Gain Flatness	5.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	<-18 dBc	At rated output power
Non Harmonics Spurious	<-60 dBc	Carrier offset >100KHz
Operating Voltage	100 - 240 VAC Nom	50/60 Hz ±6%
Power Consumption	1500 Watt Max	At 200W Pout
Max Input Power protection	+8 dBm	<10 Seconds
Load VSWR Protection	∞ : 1	<1 Minute

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)	4U - without handles
Weight	60 lb. (27 kg.)	
RF Connectors In / Out	Type-N Female	Rear panel
AC Power / Interface 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 Optional GPIB Interface	Remote Bluetooth application

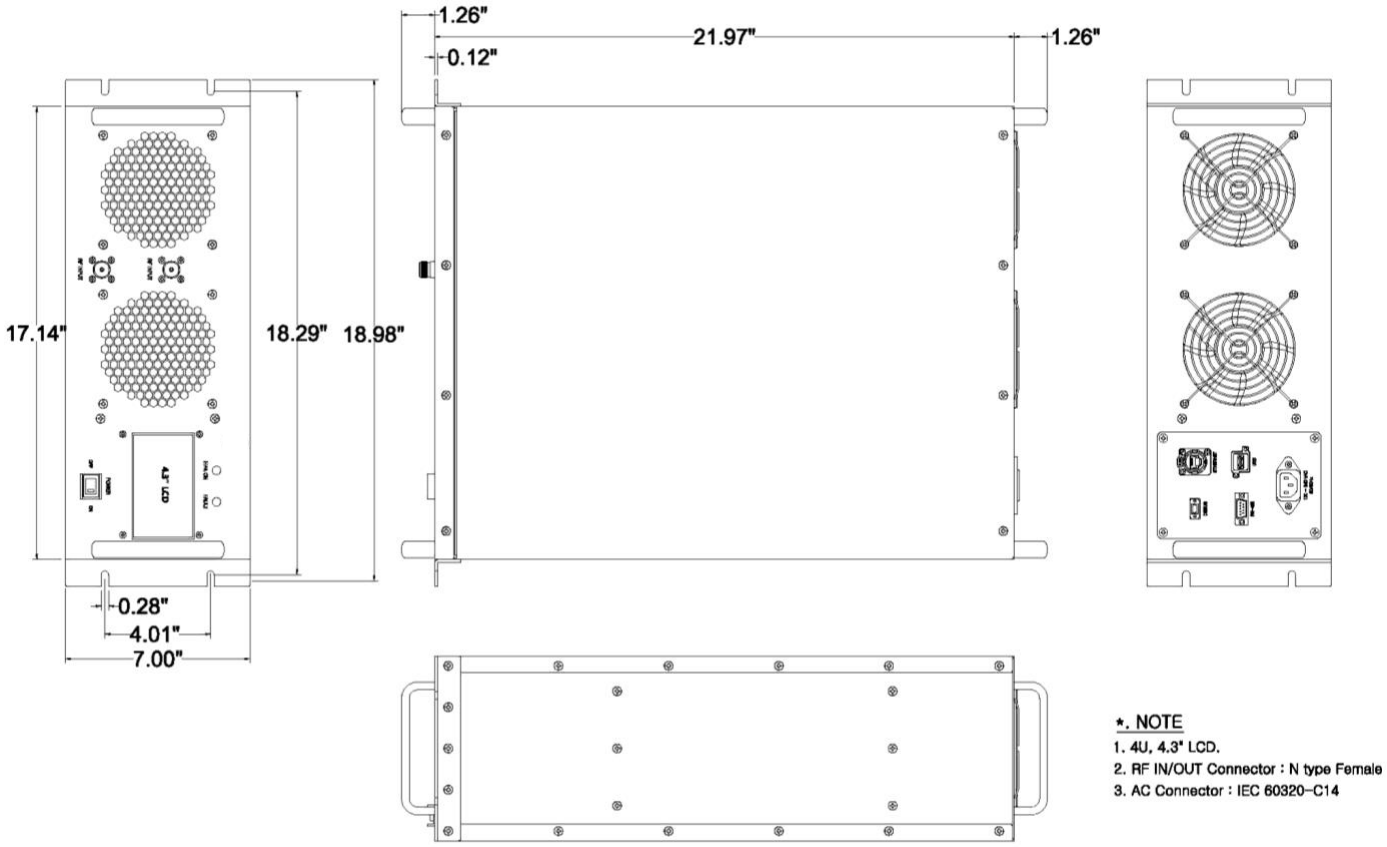
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OUTLINE DRAWING

SHOWN WITH OPTIONAL LCD CONTROLLER



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

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