HD32821
SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

FEATURES

Rack mounted system
High Power Class AB linear GaN design
Instantaneous ultra-wide bandwidth
Designed for broadband EMI/RFI, Lab, Comm. and EW applications
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	6.0 - 18.0 GHz	
Power Output @ Psat	100 Watt Min	CW
Power Output @ P1dB GCP	50 Watt Min	CW
Power Gain	50 dB Min	
Power Gain Flatness	4.0 dB p-p Typ	Constant input power
Gain Control	20 dB Typ	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
Harmonics	<-10 dBc Typ	At rated output
Non Harmonic Spurious	-60 dBc Max	
Operating Voltage	100-240 VAC	
Power Consumption	1000 Watt Max	At rated output
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	Self-initiated shutdown
High Temperature Protection	Automatic Shutdown	

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
Shock & Vibration	MIL-STD-810E	Designed to meet

MECHANICAL SPECIFICATIONS

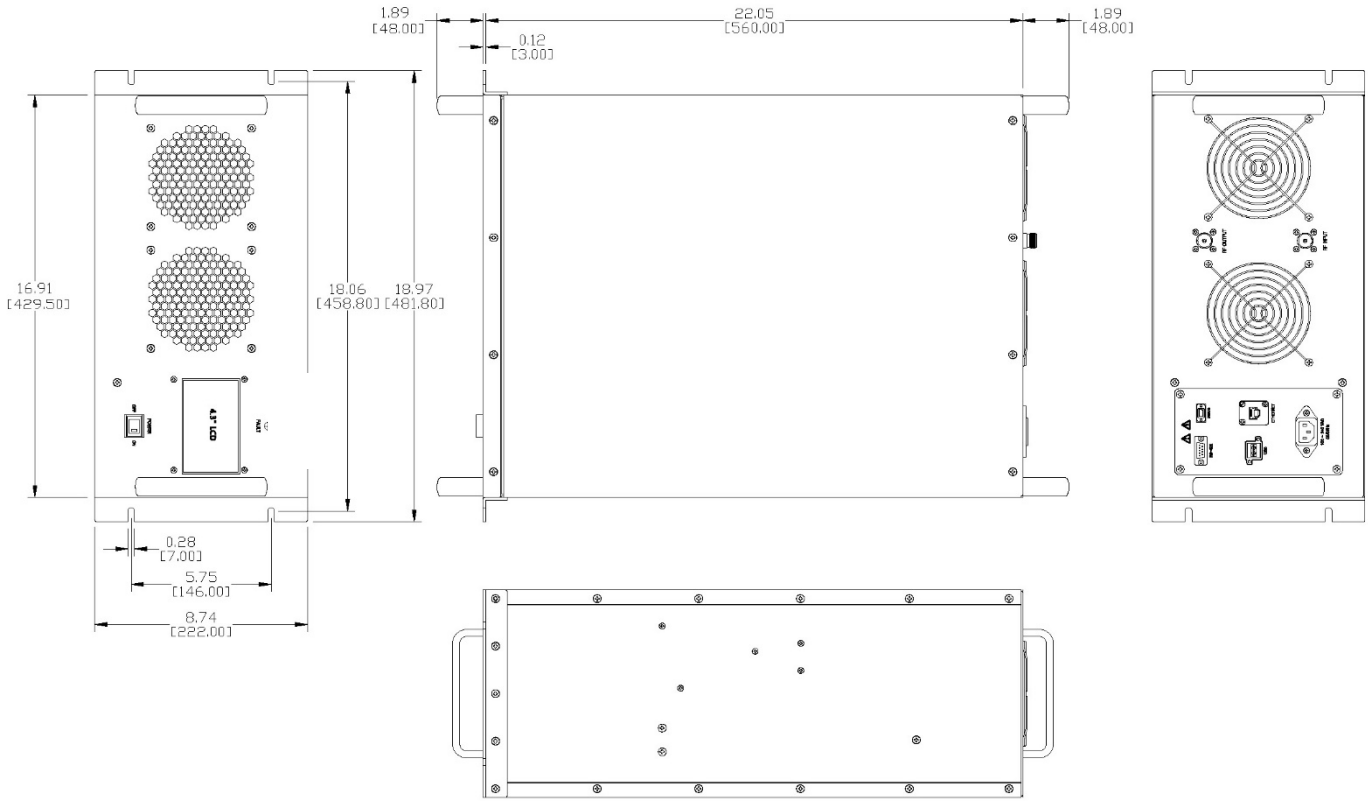
Parameter	Specification	Notes
Dimensions W x H x D	430 x 222 x 560 mm	5U - excluding handles
Weight	35 Kg. Max	
RF Connectors In/Out	Type-N Female	Front or rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
STANDARD: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	

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OUTLINE DRAWING



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