HD31173
SOLID STATE HIGH POWER AMPLIFIER

Communications Corp.

FEATURES

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



ELECTRICAL SPECIFICATIONS: 25°C, 50Ω

Parameter	Specification	Notes
Operating Frequency Range	80 - 1000 MHz	
Power Output	300 Watt Min 250 Watt Min	CW Into 3:1 Load VSWR
Power Gain	54 dB ± 2.0dB	
Gain Adjustment Range	20 dB Typ	Manual or with controller option
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-25 dBc Typ	45dBm/Tone, Δ = 1MHz
Harmonics	<-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	48 - 63 Hz
Power Consumption	2 KW Max / <1.5 KW Typ	At rated Pout
Input Power Protection	+8 dBm Max	<10 Seconds without damage
Load VSWR Protection	∞ : 1	<1 Minute @ rated output

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

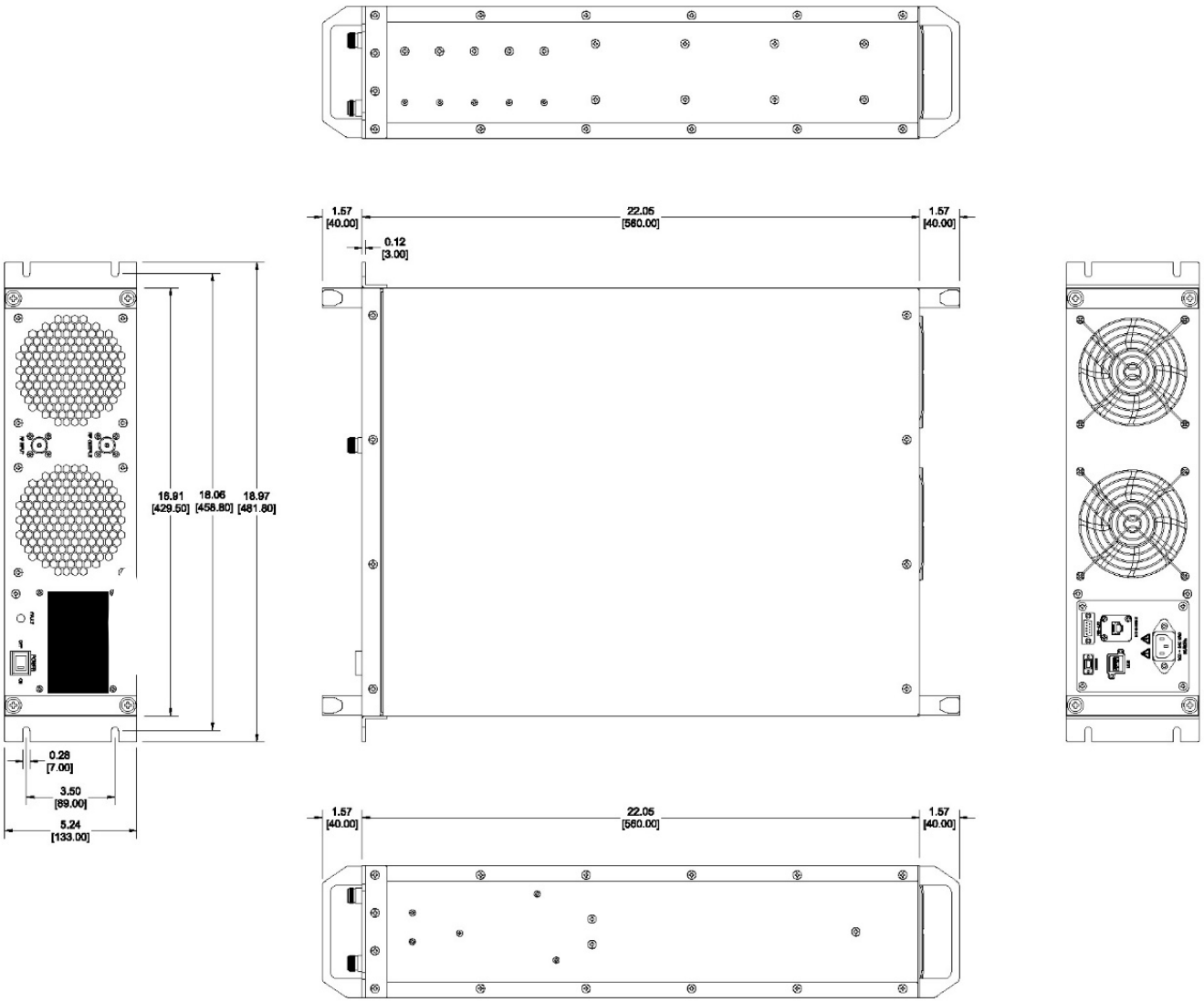
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U without handles
Weight	20 kg.	
RF Connectors In/Out	Type-N Female	Front or Panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	Optional Remote Bluetooth application

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OUTLINE DRAWING



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