HD32020
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small form factor, rack mounted system
Class A/AB linear design using high power advanced GaN devices
Instantaneous ultra-wide bandwidth
Designed for EMI/RFI, lab, and general communication applications
Suitable for all composite signal channel modulation standards & applications
Built-in protection circuits
High reliability and ruggedness with extensive monitoring & protection circuits
Optional all remote-control platforms
High efficiency, with unprecedented reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	2.0 - 6.0 GHz	
Power Output @ Psat	300 Watt Min	CW
Power Output @ P1dB	>200 Watt Typ	CW
Power Gain	55 dB Min	
Power Gain Flatness	3 dB p-p Max	Constant input power
Gain Adjustment Range	20 dB Min / 30 dB Typ	
Input / Output Return Loss	-10 dB Max	
2-Tone Intermodulation (IMD)	-30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output
Spurious	-60 dBc Max	Non-harmonic
Operating Voltage	180 - 240 VAC	
Power Consumption	4 kW Max / <3 kW Typ	At rated output
Input Power Protection	+8 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<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

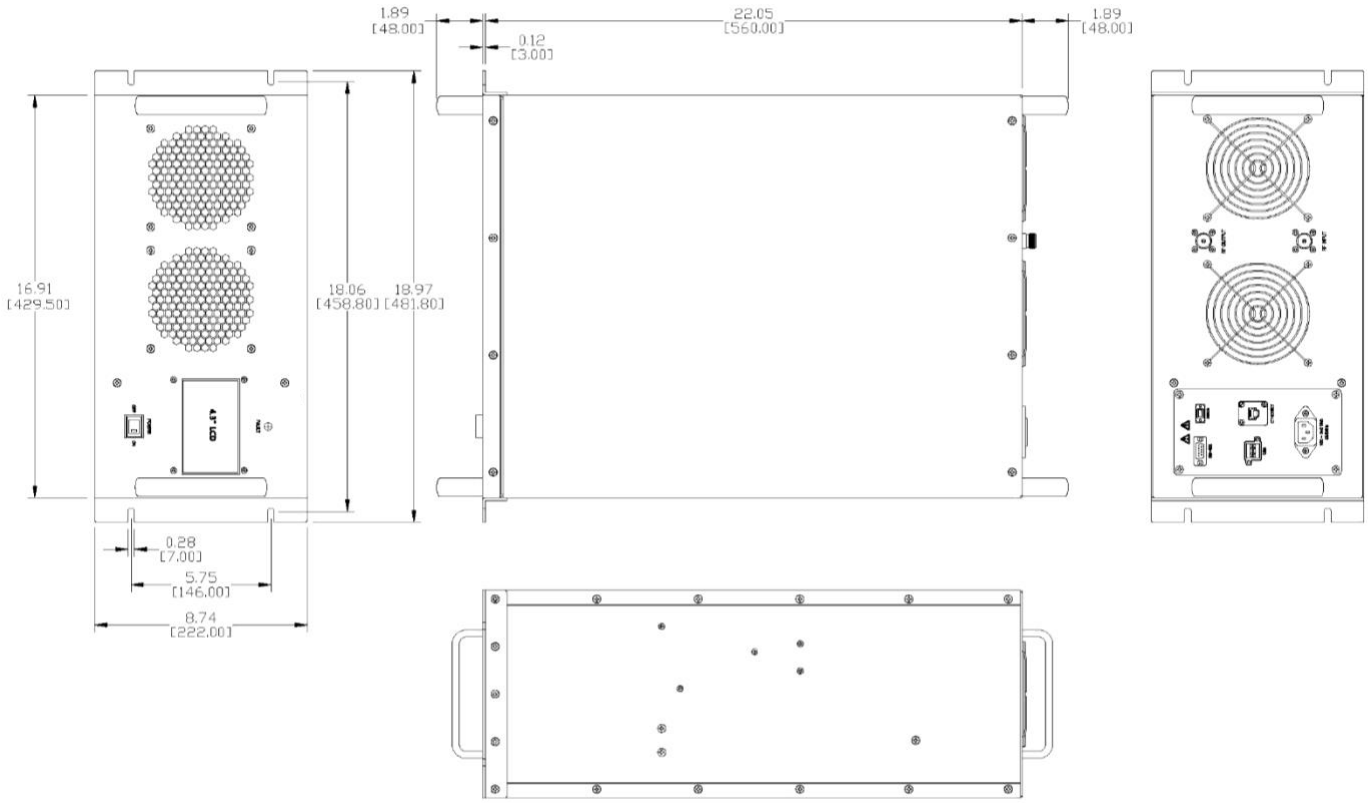
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 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
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, USB Optional GPIB Interface	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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OUTLINE DRAWING



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