HD32083
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack cabinet modular system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness


One R5U rack mounted chassis shown

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	400 - 1200 MHz	
Power Output	2200 Watt Min	CW
Power Output @ P1dB GCP	1000 Watt Min / 1500 Watt Typ	CW
Power Gain	63 dB Min	0dBm input normal operation
Gain Adjustment Range	20 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	53dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	
Non-Harmonics Spurious	60 dBc Min	Non-Harmonics
Operating Voltage	120 VAC, 3-Phase	50 - 60 Hz
Power Consumption	9 KW Typ / 11KW Max	At rated Pout
Max Input Power	+5 dBm	Without damage
Load VSWR Protection	5: 1	Good 50Ω must be maintained

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation
Shock & Vibration	MIL-STD-810F	Designed to meet

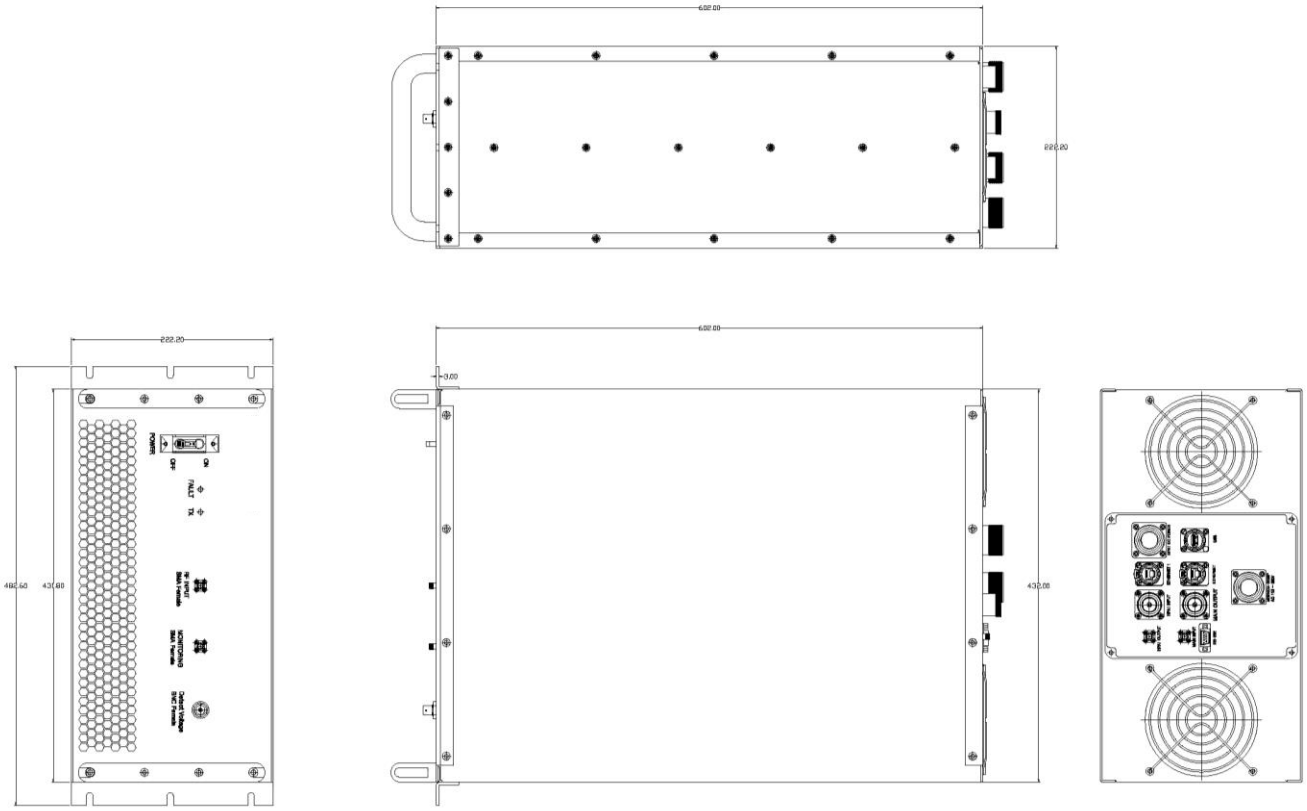
MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	5 x R5U	Rack Mount Chassis
Weight	TBD	
RF Connectors In/Out	Type-N Female / 1 5/8" EIA	Front Panel Standard
AC Power / Interface	MS3102A24-10P / 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 Optional GPIB Interface	

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OUTLINE DRAWING – SHOWING 0NE 5U RACK CHASSIS



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