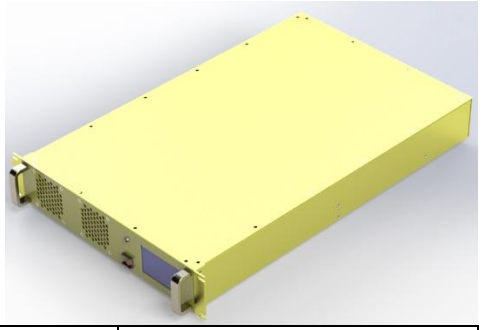
HD31992
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES

Rack mounted system
Class AB linear LDMOS and GaN design
Dual Band, manual relay Switching
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification		Notes
Operating Frequency Band	1 - 1000 MHz	1 - 6 GHz	Band switching @ 15 mS Max
Power Output CW	30 Watt Min		CW
Power Gain	45 dB Min		
Power Gain Flatness	4.0 dB p-p Max		Constant input power
Input Return Loss	10 dB Min		Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ		35dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ		At rated Pout
Non Harmonic Spurious	-60 dBc Max		Non-harmonics
Operating Voltage	100 - 240 VAC		
Power Consumption	600 Watt Max		At rated Pout
Input Power Protection	+8 dBm Max		<10 Sec without damage
Load VSWR Protection	∞ : 1		<1 minute at rated Pout for

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

MECHANICAL SPECIFICATIONS

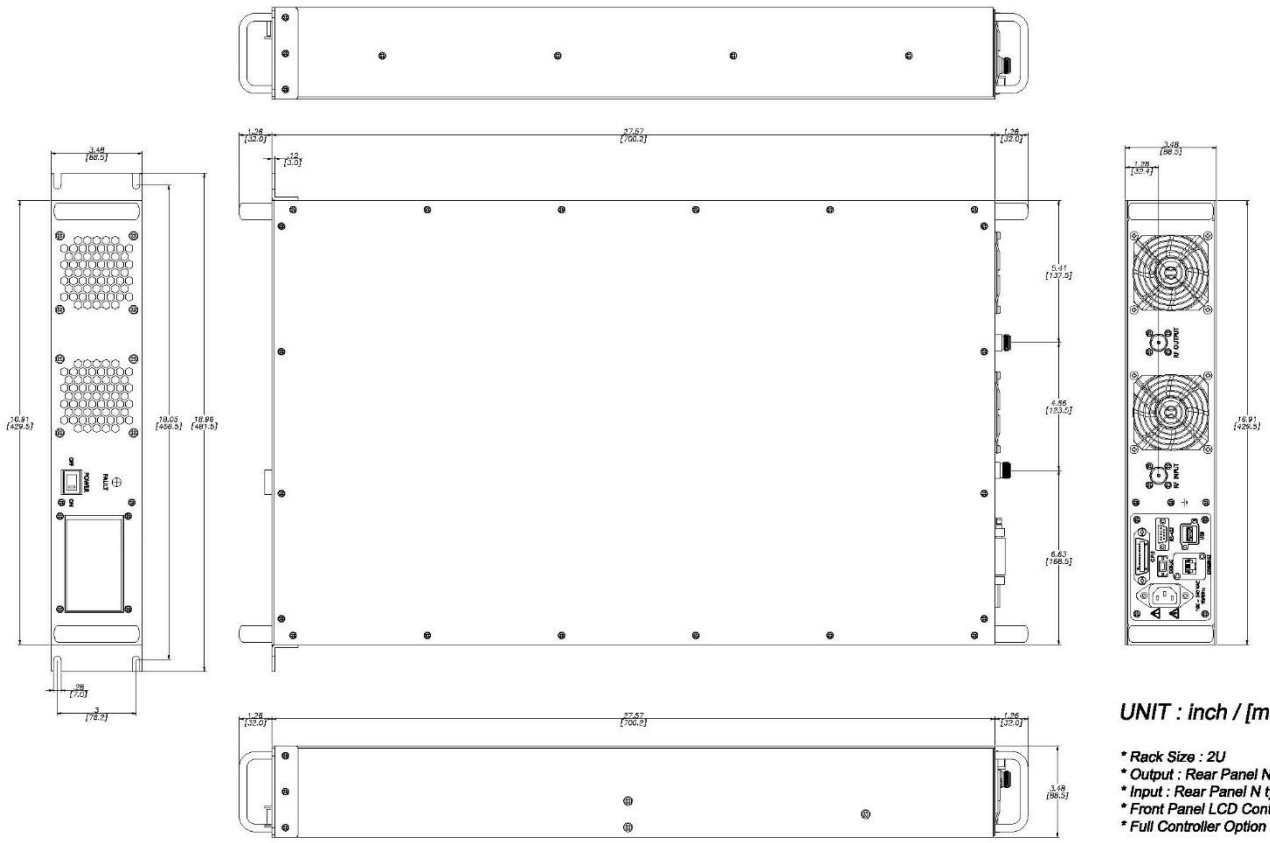
Parameter	Specification	Notes
Dimensions W x H x D	17 x 3.5 x 27.57 inch (430 x 88 x 700 mm)	2U, excluding handles
Weight	27 lb. (12 kg.)	
RF Connectors In/Out	Type-N Female	Rear Panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
INCLUDED: Digital Monitor & 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

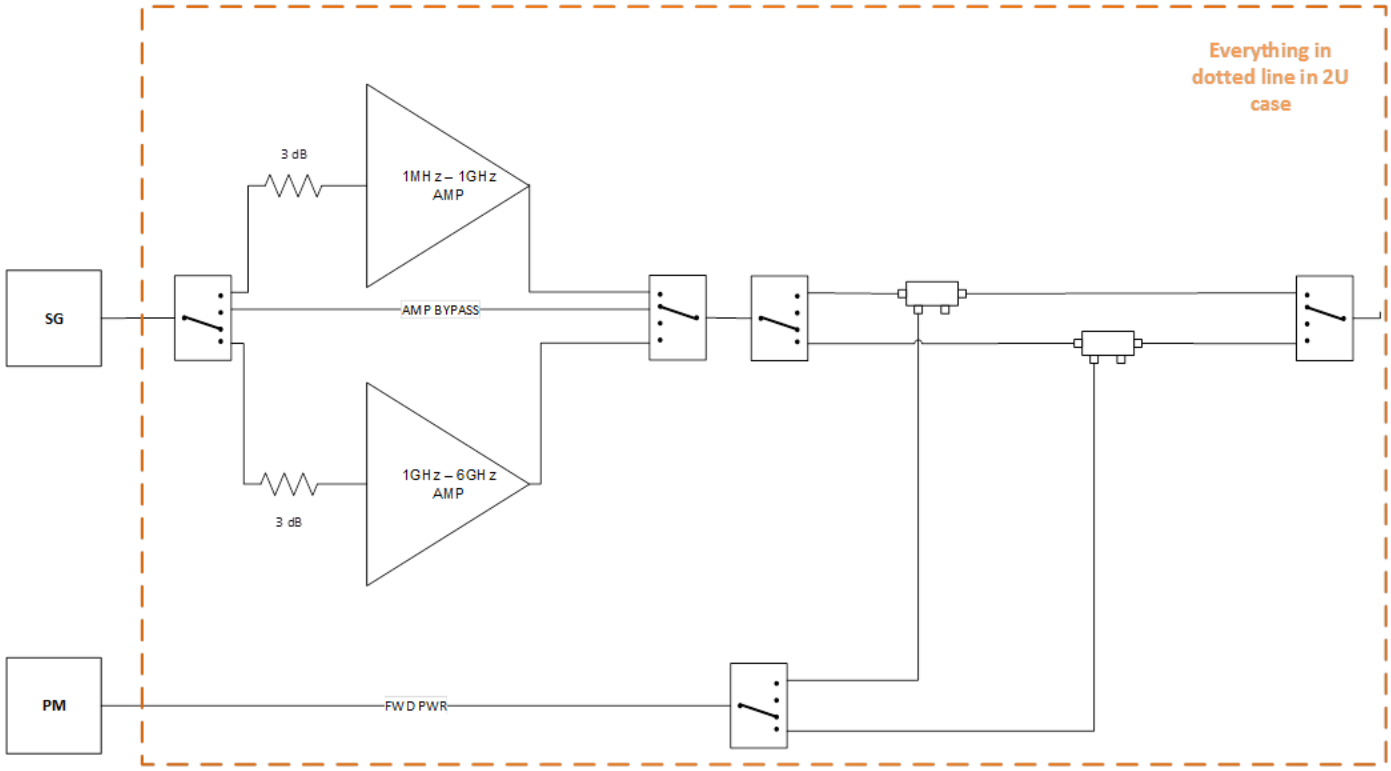


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BLOCK DIAGRAM



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