HD Communications Corp.

HD32013
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Built-in T/R switch
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	20 - 100 MHz			
Power Output	300 Watt Min			CW
Power Gain	55 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			45dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ			At rated output
Non Harmonics Spurious	-60 dBc Max			Non Harmonics
Operating Voltage	100 - 240 VAC			
Power Consumption	1500 Watt			At rated Pout
Max Input Power Protection	+8 dBm			< 10 Seconds
Load VSWR Protection	∞ : 1			<1 Minute
Transmit / Receive Switch Characteristics	**Speed**	**Isolation**	**Control**	Transmitter must be off between Tx & Rx modes
	5 µS Max	50 dB Min	TTL	

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

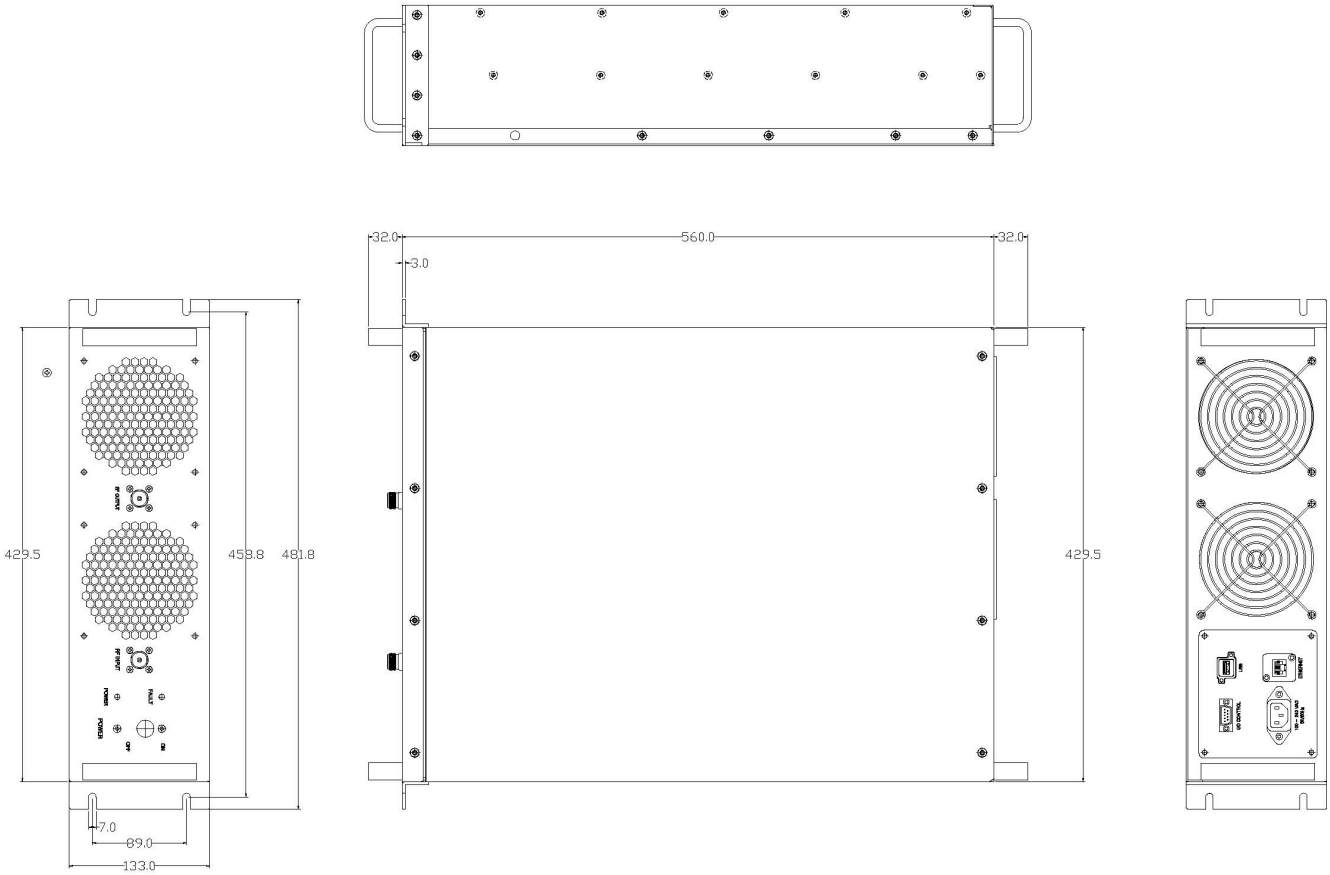
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	20 Kg. Max	
RF Connectors Input / Tx / Rx	Type-N Female	Rear panel
AC Power	IEC 60320-C14 / 9-Pin D-Sub	Or equivalent
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485, 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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