HD32139
SOLID STATE HIGH POWER AMPLIFIER

HD Communications Corp.

FEATURES
Rack mounted system
Class AB solid-state linear design
L-Band high power applications
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	1574 - 1577MHz	
Power Output	350 Watt Min	CW
Power Gain	55 dB Min	
Small Signal Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	<10 dB	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	45dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	At 300 Watt
Noise Figure	<10 dB	
Non Harmonics Spurious	60 dBc Min	
Operating Voltage	100 - 260 VAC	
Power Consumption	1800 Watt Max	At rated Pout
Max Input Power	+27 dBm	Protection Circuit
Load VSWR Protection	5 : 1	

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
Shock and Vibrations	Normal truck transport	
Altitude	10,000 feet Min	

MECHANICAL SPECIFICATIONS

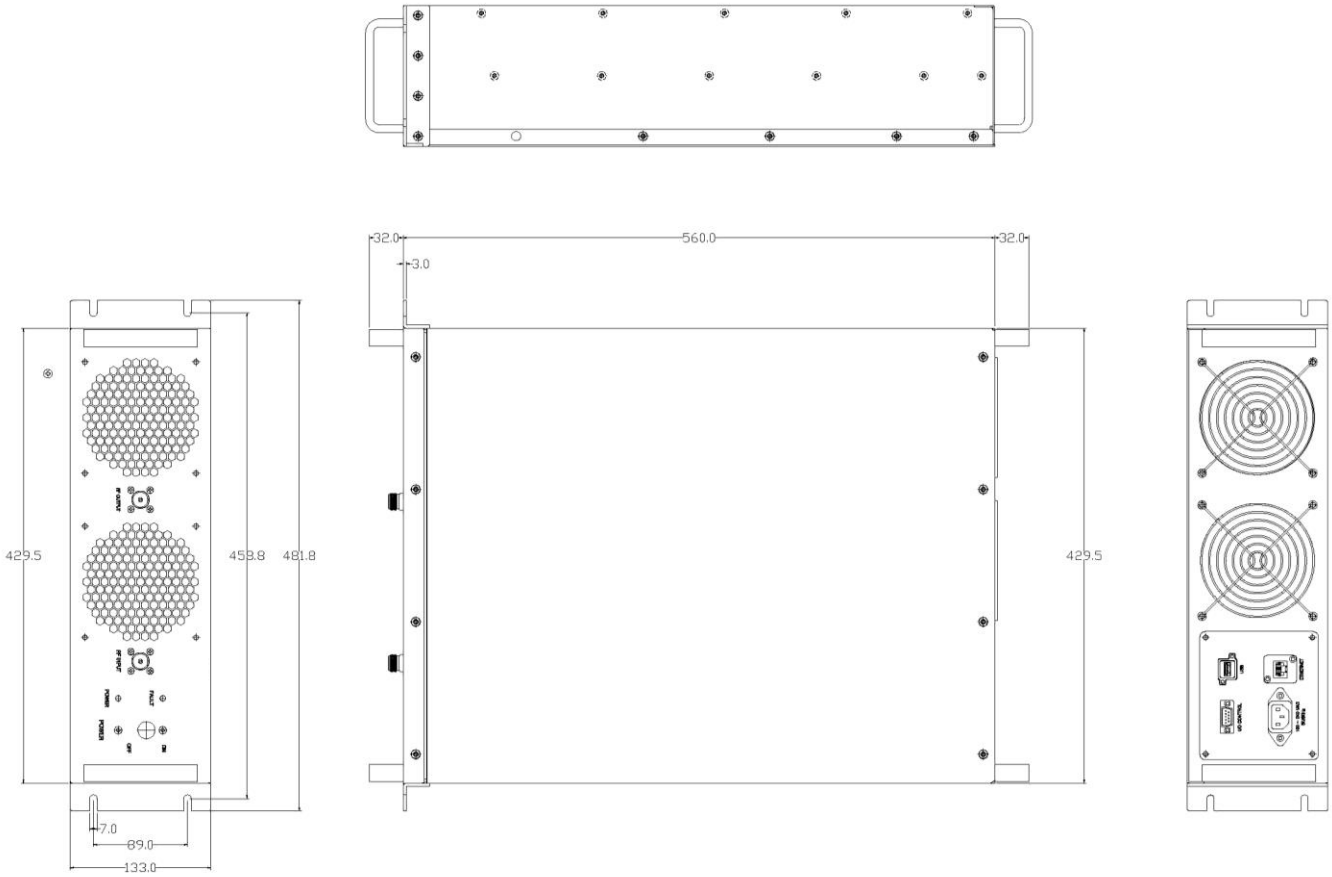
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm	3U
Weight	20 kg.	
RF Connectors In/Out	Type-N Female	
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485	Remote Bluetooth application

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OUTLINE DRAWING



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