HD Communications Corp.

HD32103
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Designed for X-Band linear applications
Class AB Solid-State linear hybrid design
Instantaneous wide bandwidth
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	9.5 - 10.5 GHz	
Power Output	70 Watt Min	CW
Power Gain	50 - 60 dB Min	Gain adjust
Power Gain Flatness	4 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Noise Figure	7 dB Max	At Max Gain
2-Tone Intermodulation (IMD)	-30 dBc Min	37dBm/Tone, Δ = 1MHz
Harmonics	-20 dBc Typ	At rated output power
Spurious	-100 dBc Max	10 - 400KHz non-harmonics
Operating Voltage	100 - 240 VAC	
Power Consumption	700 Watt Max	At rated Pout
Input Power Protection	+8 dBm Max	<10 Sec at without damage
Load VSWR Protection	5 : 1	<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-condensation

MECHANICAL SPECIFICATIONS

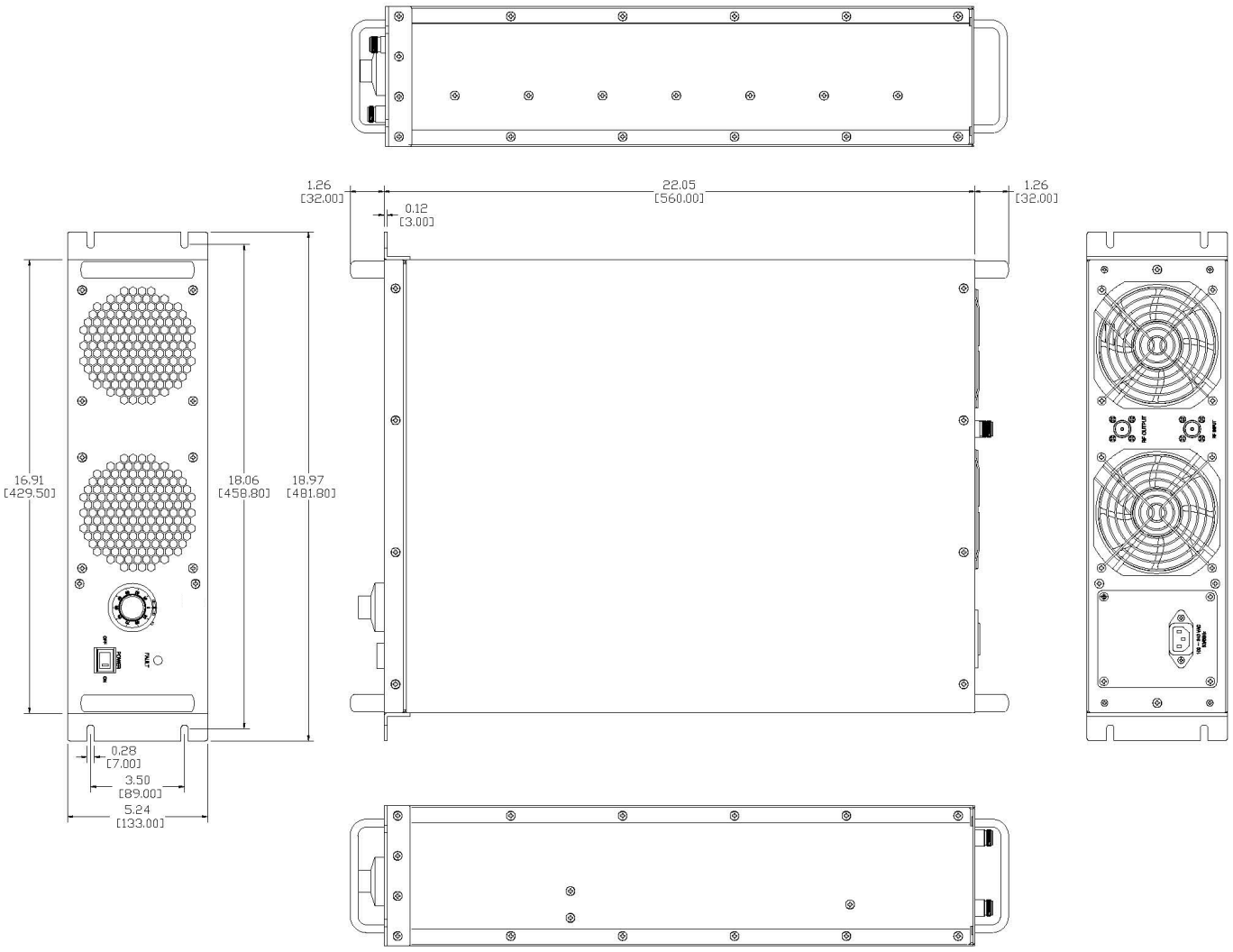
Parameter	Specification	Notes
Dimensions W x H x D	430 x 133 x 560 mm (19 x 5.25x 22.05 inch)	3U - Without handles
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front panel
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	Variable speed
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485 GPIB Interface	Remote Bluetooth application

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OUTLINE DRAWING



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