HD Communications Corp.

HD31200
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Suitable for broadband EMI/RFI, Lab, Comm. and EW applications
Class AB linear GaN design
Instantaneous ultra-wide bandwidth
Suitable for all modulations standards
Rack mounted system
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	800 - 4200 MHz	
Power Output	200 Watt Min	CW
Power Gain	53 dB Min	
Power Gain Flatness	3.0 dB p-p Max	Constant input power
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	43dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	At rated output power
Non Harmonics Spurious	>60 dBc	
Operating Voltage	100 - 240 VAC	
Power Consumption	1000 Watt Max	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	∞ : 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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	430 x 133.3 x 560 mm	3U
Weight	20 kg.	
RF Connectors In / Out	Type-N Female	Front Panel Standard
AC Power / Interface Connector	IEC 60320-C14 / 9-Pin D-Sub	
OPTION: Digital LCD Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	1 Ethernet RJ-45 circular connector TCP/IP 1 RS422/485 D-dub 9S port for redundancy	Remote Bluetooth application
Cooling	Built in Fan Cooling	Variable speed

HD31200
SOLID STATE HIGH POWER AMPLIFIER

OUTLINE DRAWING

