HD32123
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Small and light weight bench top chassis
Class AB linear GaN hybrid design
X-Band medium power pulse applications
Built-in protection circuits
Universal voltage AC power supply
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes
Operating Frequency Range	12.8 - 14.0 GHz			
Power Output @ Peak Pulse	28 Watt Min			Peak pulse
Pulse Characteristics	**Width**	**Duty**	**PRF**	
	12.5 - 25 µS	25 %	10 - 20 KHz	
Power Gain	40 dB Min			
Operating Input Power	+4 dBm Nom			
Max Input Power	+20 dBm			Without damage
Power Gain Flatness	2.0 dB p-p Max			
Gain Variation Over Temp	3.0 dB p-p Max			
Input Return Loss	10 dB Min			Relative to 50 Ohm
Harmonics	>30 dBc Typ			At rated Pout
Non Harmonics Spurious	60 dBc Min			Non Harmonics
Noise Figure	10 dB Max			
Operating Voltage	100 - 240 VAC			50/60Hz
Power Consumption	350 Watt Max			At rated Pout
Load VSWR Protection	5 : 1			
Muting Speed	1 µS Max			TTL
Cooling	Built-in forced air			

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Ambient Temperature	0 to +50 °C	Automatic shutdown
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Altitude	20,000 feet Min	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	15 x 7 x 17 Inch Max	Excluding handles
Weight	15 lb. Max.	
RF Connectors In/Out	SMA Female	
AC Power / Interface Connector	MIL-C-26482 / 9-Pin D-Sub	
Cooling	Built in Fan Cooling	
OPTIONAL: Digital Monitor & Control FWD, REV, VSWR, GAIN, ALC, V & I, TEMP	Ethernet RJ-45 TCP/IP, RS422/485	

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HD Communications Corp.

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OUTLINE DRAWING

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