HD Communications Corp.

HD32034
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Additional band switching harmonics LPF bank
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification					Notes
Operating Frequency Range	1.5 - 30 MHz					
Power Output @ Psat	2000 Watt Min					CW
Power Output @ P1dB Gain Compression	1000 Watt Min					CW
Power Gain	63 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					53dBm/Tone, Δ = 1MHz
Harmonics	-45 dBc Max					5 Band switching filters
Spurious	-60 dBc Max					Non-harmonics
Operating Voltage	100 - 240 VAC					
Power Consumption	6 KW Max					At rated Pout
Max Input Power	+3 dBm					Note 1
Load VSWR Protection	5 : 1					Note 2
Band Filter Range Cutoff (MHz)	2.7	5	9	16	30	Nominal values

Notes:

1. Nominal Input Power is 0dBm. +3dBm is allowed for up to 10Sec with no damage.
2. 1 Minute Max @ rated min 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	10 U	Rack mount chassis
Weight	TBD	
RF Connectors In/Out	Type-N / SC Female	Front Panel Standard
AC Power		
I/O Connector	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 Optional GPIB Interface	Remote Bluetooth application

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