HD30814
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Rack mounted system
Class AB linear LDMOS design
Instantaneous wide bandwidth
Suitable for all modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	10 - 220 MHz	
Power Output	1000 Watt Min	Pulse
Pulse Width / Duty Cycle / Droop	100 mS / 20 % / <10%	
Rise / Fall Time	<200 nS	
Power Gain	60 dB Min	
Power Gain Flatness	2.0 dB p-p Max	
Input Return Loss	10 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>30 dBc Typ	50dBm/Tone, Δ = 1MHz
Harmonics	>20 dBc Typ	
Non Harmonics Spurious	60 dBc Min	Non Harmonics
Operating Voltage	180 - 260 VAC Nom	Std. 180 - 240 VAC available
Power Consumption	4000 Watt Max	At rated Pout
Switching Speed / Noise quieting	<10 uS / <10dB above thermal noise	
Max Input Power	+8 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 Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions W x H x D	5U Rack mounted	See outline drawing
Weight	30 Kg.	
RF Connectors In/Out	Type-N Female	
AC Power	See outline drawing	
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	Local LCD or a Remote Bluetooth application

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