HD31864
SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Class AB linear LDMOS design
Instantaneous bandwidth
Suitable for high power VHF pulse applications
Built-in monitoring and protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes		
Operating Frequency	140 - 180 MHz					
Power Output	2.5 KW Min / 2.7 KW Typ			Peak Pulse		
Power Gain	64 dB Min					
Pulse Characteristics	**Width**	**Duty**	**PRF**	**Rise/Fall**	**Droop**	**Jitter**
	250µS	10%	10Hz	<100nS	<1dB	2nS Max
Input Return Loss	-12 dB Max			Relative to 50 Ohm		
Harmonics	-30 dBc Typ					
Operating Voltage	50 VDC					
Current Consumption	50 Amp Peak / 9 Amp Avg Max			2.5KW Peak @ 10% DS		
Load VSWR Protection	5 : 1 Max			<1 minute at rated Pout		

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	320 x 220 x 32 mm	Excluding heatsink
Weight	TBD	
RF Connectors In/Out	SMA female / Type N female	
DC Power / Interface Connector	Hybrid D-Sub / TBD	
Cooling	External Heatsink	Forced air required

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OUTLINE DRAWING

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