



AMP3117P SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes		
Operating Frequency	150 - 250 MHz					
Power Output	1.5 KW Min			Peak Pulse		
Power Gain	62 dB Nom					
Pulse Characteristics	Width	Duty	PRF	Rise/Fall	Droop	Jitter
	100µS	10%	-	<100nS	<1dB	-
Input Return Loss	-12 dB Min			Relative to 50 Ohm		
Harmonics	30 dBc Typ					
Operating Voltage	50 VDC					
Current Consumption	40 Amp Peak / 4 Amp Avg. Max			1.5KW Peak @ 10% duty cycle		
Input Overdrive protection	+3 dBm			Limited to 10 Sec		
Load VSWR Protection	5 : 1 Max					

ENVIRONMENTAL CHARACTERISTICS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	320 x 250 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