



# AMP3114P 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	<b>Width</b>	<b>Duty</b>	<b>PRF</b>	<b>Rise/Fall</b>	<b>Drop</b>	<b>Jitter</b>
	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**