



# AMP3032P SOLID STATE HIGH POWER PULSE AMPLIFIER

## FEATURES

- Class AB linear LDMOS design
- Ruggedized, compact, light weight
- Suitable for L-Band high power radar pulse applications
- Internal capacitive bank provides low output droop
- Built-in protection circuits
- High reliability and ruggedness



## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification			Notes
Operating Frequency	1.2 - 1.4 GHz			
Power Output	500 Watt Min			Peak Pulse
Peak Power Gain	57 dB Min			
Input Pulse Characteristics	<b>Duty Cycle (δ)</b>	<b>Width (tp)</b>	<b>Rise / Fall</b>	
	10 % Max	120 μS Max	100 nS Max	
Pulse Droop	<1 dB			
Input Return Loss	-12 dB Max			Relative to 50 Ohm
Harmonics	-30 dBc Max			
Operating Voltage	40 - 42 VDC Nom			
Current Consumption	4.0 Amp Avg / 40 Amp Peak Max			@ δ = 10%
Load VSWR Protection	5 : 1 Max			

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-20 to +70°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensing

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	200 x 105 x 30 mm	Excluding connectors
Weight	1.2 Kg.	
RF Connectors In/Out	SMA female / Type N female	
DC Power / Interface Connector	Feed Thru	
Cooling	External Heatsink	Forced air required

## FEED THRU PIN ASSIGNMENT

1	VDD	+40 - 42VDC
2	GATING SIGNAL	ON = TTL "Lo"; OFF = TTL "Hi"
3	DISABLE	TTL "Hi" = Disable Function @ 50mS
4	GND	Ground

## OUTLINE DRAWING WITH GATING INPUT

