



# AMP3032P

## SOLID STATE HIGH POWER PULSE AMPLIFIER

### FEATURES

Ruggedized, compact Class AB high power pulse SSPA designed for L-Band high power Radar applications. Standard features include protection against over-temperature, excess VSWR, excess modulation (pulse width and duty cycle). An internal capacitive bank provides low output droop over extended pulse widths. Input pulse modulation is accomplished through TTL compatible level signals.

### ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency	1200 - 1400 MHz	
Power Output	500 Watt Min	Peak Pulse
Peak Power Gain	57 dB Min	
Duty Cycle( $\delta$ )	10% Max	
Pulse Width(tp)	120 $\mu$ S Max	
Pulse Repetition Frequency (PRF)	1400 Hz Min	
Pulse Rise / Fall Time	100nS Max	
Pulse Droop	1dB Max	
Input Return Loss	12 dB Min	Relative to 50 Ohm
Harmonics	30 dBc Min	
Operating Voltage	40-42 VDC Nom	
Current Consumption	5.0 Amp Avg / 50 Amp Peak Max	
Harmonics	>30 dBc	
Load VSWR Protection	$\infty$ : 1	

### ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-30 to +70°C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

### MECHANICAL SPECIFICATIONS

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

## OUTLINE DRAWING

