



AMP3076P-1 SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

- High power pulse linear GaN Devices
- Designed for high power X-Band Pulse applications
- Built-in protection circuits
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes	
Operating Frequency Range	9.5 - 9.7 GHz				
Peak Pulse Output	2 KW Min / 2.2 KW Typ				
Saturated Gain	53 dB Min			+10dBm normal operation	
Pulse Characteristics	Width	Duty	PRF	Rise/Fall	Drop
	360 nS	-	3660 Hz	50 nS	0.5 dB
Input / Output VSWR	1.5 : 1 / 2:1 Max			Relative to 50 Ohm	
Harmonics	-20 dBc Max @ Psat				
Spurious	-55 dBc Max			Non-harmonics	
Operating Voltage	48 VDC \pm 1.0 V				
Efficiency (PAE)	18 % @ Psat				

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-20 to +60 °C	
Storage Temperature	-40 to +70 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Value
Dimensions	300 x 200 x 40 mm	
Weight	TBD	
Cooling	External Heatsink	Forced air required
Input Connector	SMA female	
Output Connector	Waveguide	
DC Connector	9-Pin Hybrid D-Sub	

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	
2	N/C	
3	CURRENT SENSOR	I _D @50mV/100mA Typ
4	TEMP SENSOR	V _T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL "Hi" = Disable Function @ 50mS (Option: 5uS Trigger/Pulse Modulator)
A1, A2	VDD	48VDC
A3, A4	GND	Ground

OUTLINE DRAWING

