



AMP5048P SOLID STATE HIGH POWER PULSE AMPLIFIER

FEATURES

Class AB linear GaN design
Ku Band medium power pulse applications
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification			Notes	
Operating Frequency Range	16.3 - 16.7 GHz				
Peak Output Power	160 Watt Min			Pulse	
Pulse Characteristics	Width	Duty	PRF	Rise / Fall	
	3 - 10 μ S	10 % Nom	-	75 nS Max	
Power Gain	52 dB Min				
Input Return Loss	-10 dB Max			Relative to 50 Ohm	
Harmonics	-30 dBc Typ			At rated Pout	
Spurious	-60 dBc Max			Non-harmonics	
Operating Voltage	40 VDC Nom				
Current Consumption	2.5 Amp Avg			At rated Pout	
Max Input Power Protection	+3 dBm			Without damage	
Load VSWR Protection	∞ : 1			O/P Isolator	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non-condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	220 x 260 x 27 mm	Excluding Connectors
Weight	TBD	Typical Weight
RF Connectors In/Out	SMA-F / Hi Power SMA-F	Waveguide is standard.
DC Power / Interface Connector	Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	FWD	N/C
2	REV	N/C
3	CURRENT NONITOR	I_D @20mV/100mA Typ
4	TEMP SENSOR	V_T @10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
A1	VDD	40VDC
A2	GND	Ground



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OUTLINE DRAWING