AMP3095-1
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaN hybrid design
Instantaneous wide bandwidth
Designed for military and aerospace applications
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS: 25°C, 24VDC

Parameter	Specification	Notes
Operating Frequency Range	32.0 - 38.0 GHz	
Power Output Psat	10 Watt Typ / 7 Watt Min	
Power Output @ P1dB	5 Watt Typ / 2.5 Watt Min	
Power Gain	40 dB Typ / 35 dB Min	
Power Gain Flatness	±4.0 dB Max	Constant input power
Input / Output Return Loss	-10 dB Max	Relative to 50 Ohm
Noise Figure	12 dB Max	
Harmonics	-20 dBc Typ	At rated Pout
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	24 VDC Nom	
Current Consumption	4.5 amp Typ / 7 Amp Max	At rated Pout
Input Power Protection	0 dBm Max	<10 Sec without damage
Load VSWR Protection	5 : 1 Max	<1 minute at rated Pout

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
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	110 x 130 x 27 mm	Excluding connectors
Weight	750 gr.	
RF Connectors In/Out	2.9 mm K Type female	
DC Power / Interface Connector	9-Pin D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1	N/C	Reserved
2	N/C	Reserved
3	CURRENT SENSOR	I_D@20mV/100mA Typ
4	TEMP SENSOR	V_T@10mV/°C + 500mV Typ
5	SHUTDOWN	TTL
6, 7	VDD	24VDC
8, 9	GND	Ground

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OUTLINE DRAWING