AMP3095
SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB linear GaAs FET hybrid design
Instantaneous wide bandwidth
Suitable for all single channel modulations standards
Built-in protection circuits
High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	31.0 - 40.0 GHz	
Power Output Psat	5 Watt Min	
Power Output @ P1dB	3.5 Watt Typ	
Power Gain	37 dB Min	
Power Gain Flatness	8.0 dB p-p Max	Constant input power
Input / Output Return Loss	10 dB Min	Relative to 50 Ohm
Noise Figure	12 dB Max	
Harmonics	>20 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc Min	
Operating Voltage	9 VDC Nom	
Current Consumption	16 Amp Typ	At rated Pout
Max Input Power	0 dBm Max	Without damage
Load VSWR Protection	5 : 1	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +65 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	110 X 130 X 27 mm	Excluding Connectors
Weight	750 gr.	
RF Connectors In/Out	SMA 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	9VDC
8,9	GND	Ground

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OUTLINE DRAWING