



AMP1095 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all modulations standards
- Built-in protection circuits
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	4.0 - 18.0 GHz	
Power Output Psat	30 Watt Min	CW
Power Output P1dB	20 Watt Min	CW
Power Gain	46 dB Min	
Input Return Loss	10 dB Min	Relative to 50 Ohm
Harmonics	>15 dBc Typ	At rated Pout
Spurious	>60 dBc	Non Harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	19 Amp Max	At rated Pout
Max Input Power	8 dBm	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	170 X 180 X 27 mm	Excluding Connectors
Weight		Typical Weight
RF Connectors In/Out	SMA (F) / SMA (F)	
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 MONITOR	$I_D @ 20mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/°C + 500mV$ Typ
5	SHUTDOWN	TTL
A1	VDD	32VDC
A2	GND	Ground

OUTLINE DRAWING

