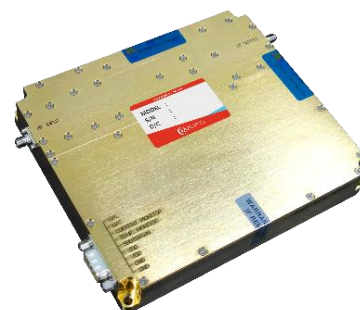


AMP1074-8 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

Class AB GaN design
Instantaneous ultra-wide Bandwidth
Broadband coverage of C, X and Ku Bands
Suitable for all single channel modulation standards
Built-in protection circuits
High reliability and ruggedness



ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	6.0 - 20.0 GHz	
Power Output Past	10 Watt Min	CW
Power Gain	40 dB Min	
Power Gain Flatness	5 dB p-p Max	
Input Return Loss	-10 dB Max	
Harmonics 2 nd / 3 rd	-20 dBc Typ	
Spurious	-60 dBc Max	Non-harmonics
Operating Voltage	32 VDC Nom	
Current Consumption	5.0 Amp Max	At rated Pout
Input Power Protection	0 dBm Max	<10 Sec without damage
Load VSWR Protection	3 : 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	160 x 140 x 27 mm	Excluding connectors
Weight	1.2 Kg.	
RF Connectors In/Out	SMA 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
2		N/C
3	Current Sensor	I _D @50mV/100mA Typ
4	Temp Sensor	V _T @10mV/°C + 500mV Typ
5	Shutdown	Enable = TTL "Hi" or Open; Disable = TTL "Lo" or Short
6, 7	VDD	32VDC
8, 9	GND	Ground

OUTLINE DRAWING

