



AMP3040 SOLID STATE HIGH POWER AMPLIFIER

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	9.1 - 10.1 GHz	
Power Output @ P1dB	4 Watt Min	CW
Power Gain	30 dB Min	
Gain Flatness	1.0 dB p-p Max	Constant input power
Input / Output Return Loss	14 dB Min	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	>40 dBc Typ	26 dBm/Tone, $\Delta = 1$ MHz
Noise Figure	1.3 dB Typ	
Harmonics	>30 dBc Typ	At rated Pout
Non Harmonics Spurious	>60 dBc Min	
Operating Voltage	12 VDC	
Current Consumption	3.0 Amp	At rated Pout
Max Input Power	+10 dBm	Without damage
Load VSWR Protection	$\infty : 1$	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-25 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation
Shock	6G 11mS	
Vibration	0.36Frms @ 5 to 5KHz	
Altitude	28,000 ft	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	110x110x27 mm	Excluding Connectors
Weight	TBD	
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	FWD	N/C
2	VVA	N/C
3	CURRENT SENSOR	$I_D @ 50mV/100mA$ Typ
4	TEMP SENSOR	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	SHUTDOWN	TTL
6, 7	VDD	12VDC
8, 9	GND	Ground

OUTLINE DRAWING

