

AMP3107

SOLID STATE HIGH POWER AMPLIFIER



FEATURES

- High Power Linear GaAsFET 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	10 - 18.0 GHz	
Power Output P1dB	40 Watt Min	CW
Small Signal Gain	46 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Noise Figure	10 dB Max	
Operating Voltage	12 VDC Nom	
Current Consumption	44 Amp Max	At rated output
Max Input Power	+5 dBm Max	Without damage
Load VSWR Protection	5 : 1	At rated output

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	310 X 320 X 43 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	Hi Freq. SMA female	Cover Flange
DC Power / Interface Connector	7-Pin Hybrid D-Sub	
Cooling	External Heatsink	Forced air required

D-SUB CONNECTOR PIN ASSIGNMENT

Pin	Function	Description
1		N/A
2		N/A
3	Current Sensor	$I_b @ 20mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/^{\circ}C + 500mV$ Typ
5	Shutdown	TTL
A1	VDD	12VDC
A2	GND	Ground

[illegible]