



AMP3007 SOLID STATE HIGH POWER AMPLIFIER

PRELIMINARY

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	3.1 - 3.5 GHz	
Power Output	100 Watt Min	CW
Power Gain	12 dB Typ	
Power Gain Flatness	±1.0 dB Max	
Input Power for Rated Output	6 Watt Nom	
Input / Output VSWR	-1.35:1 / 2:1	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	30 dBc Typ	40dBm/Tone, $\Delta = 1\text{MHz}$
Non Harmonics Spurious	60 dBc Max	
Operating Voltage	28 VDC ± 0.5 V	
Current Consumption	12 Amp Max	At rated Pout
Max Input Power	8 Watt	Without damage
Load VSWR Protection	5 : 1 Min	
Turn On / Off Speed	TBD	

ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Note
Operating Case Temperature	-30 to +75 °C	
Storage Temperature	-40 to +85 °C	
Relative Humidity	5 to 95 %	Non Condensation

MECHANICAL SPECIFICATIONS

Parameter	Specification	Note
Dimensions	175 X 100 X 28 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female / Type-N female	
DC Power	Feed Thru	
Cooling	External Heatsink	Forced air required

PRELIMINARY

OUTLINE DRAWING

