



# AMP3025 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

Class AB GaN design  
 Instantaneous wide Bandwidth  
 Built-in protection circuits  
 High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	12.0 - 18.0 GHz	
Power Output Past	30 Watt Min	CW
Power Output P1dB	20 Watt Typ	
Small Signal Gain	45 dB Min	
Power Gain Flatness	4.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	>20 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Noise Figure	8 dB Max	
Operating Voltage	32 VDC $\pm$ 0.5 V	
Current Consumption	10 Amp Max	At rated Pout
Max Input Power	+8 dBm Max	Without damage
Load VSWR Protection	3 : 1	

## ENVIRONMENTAL CHARACTERISTICS

Parameter	Specification	Notes
Operating Case Temperature	-20 to +75°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	5 to 95 %	Non Condensation

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	130 X 120 X 27 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	HF SMA female	Cover Flange
DC Power / Interface Connector	9-Pin 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	$I_D @ 20mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/^\circ C + 500mV$ Typ
5	Shutdown	TTL
6,7	VDD	32VDC
8,9	GND	Ground

## OUTLINE DRAWING

