



# AMP3036 SOLID STATE HIGH POWER AMPLIFIER

## FEATURES

High Power 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	20 Watt Min	CW
Small Signal Gain	43 dB Min	
Power Gain Flatness	3.0 dB p-p Max	
Input Return Loss	10 dB Min	
Harmonics	>25 dBc	At rated Pout
Non Harmonics Spurious	>60 dBc	
Noise Figure	8.0 dB Max	
Operating Voltage	30 - 32 VDC	
Current Consumption	9 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	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	$I_p @ 20mV/100mA$ Typ
4	Temp Sensor	$V_T @ 10mV/°C + 500mV$ Typ
5	Shutdown	TTL
A1	VDD	32VDC
A2	GND	Ground

## OUTLINE DRAWING

