



## FEATURES

- Class AB linear GaN design
- Instantaneous wide bandwidth
- Suitable for all single channel modulation standards
- Built-in monitoring and protection circuits
- High reliability and ruggedness

## ELECTRICAL SPECIFICATIONS: 50Ω, 25°C

Parameter	Specification	Notes
Operating Frequency Range	1 - 1000 MHz	
Power Output Psat	50 Watt Min	CW
Power Output @ P1dB GCP	20 Watt Typ	CW
Power Gain	47 dB Min	
Power Gain Flatness	4.0 dB p-p Max	Constant input power
Input Return Loss	-10 dB Max	Relative to 50 Ohm
2-Tone Intermodulation (IMD)	-30 dBc Typ	37dBm/Tone, Δ = 1MHz
Harmonics	2 <sup>nd</sup>	At rated Pout
	3 <sup>rd</sup>	
Non-Harmonics Spurious	-60 dBc Max	
Operating Voltage	28 VDC ± 0.5 V	
Current Consumption	8 Amp Max / 5 Amp Typ	At rated Pout
Max Input Power	+8 dBm	<10 Sec without damage
Load VSWR Protection	∞ : 1	<1 minute at rated Pout
Turn On / Off Speed	5 μSec Max	

## ENVIRONMENTAL CHARACTERISTICS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Notes
Dimensions	162 X 96 X 27 mm	Excluding connectors
Weight	600 gr.	
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 <sub>b</sub> @20mV/100mA Typ
4	TEMP SENSOR	V <sub>T</sub> @10mV/°C + 500mV Typ
5	SHUTDOWN (Open Collector)	Enable = Open or TTL "Low" (0V) - Disable = TTL "High" (>3.2V)
6, 7	VDD	28VDC
8, 9	GND	Ground

## OUTLINE DRAWING

