

FEATURES

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

ELECTRICAL SPECIFICATIONS

Parameter	Specification	Notes
Operating Frequency Range	15.0 - 18.0 GHz	
Power Output Past	40 Watt Typ	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	8 dB Max	
Operating Voltage	42 VDC $\pm$ 0.5 V	
Current Consumption	11 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	250 X 150 x 27 mm	Excluding Connectors
Weight	TBD	
RF Connectors In/Out	SMA female / WR62	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/°C + 500mV Typ
5	Shutdown	TTL
6,7	VDD	42 VDC
8,9	GND	Ground



Technical drawing of a rectangular antenna array. The main rectangle has a width of 250 and a height of 150. The distance from the left edge to the first vertical column of elements is 46,75. The distance from the bottom edge to the first horizontal row of elements is 31,25. The distance between the two vertical columns of elements is 3,50. The distance between the two horizontal rows of elements is 3,50. The array is labeled with "RF IN" and "RF OUT" ports. The top and bottom edges are labeled with "5.00". The right edge is labeled with "27". The left edge is labeled with "2". The array is composed of multiple elements, each represented by a small circle with a cross inside. The array is connected to a central feed structure, which is labeled with "RF IN" and "RF OUT" ports. The array is also connected to a central feed structure, which is labeled with "RF IN" and "RF OUT" ports. The array is also connected to a central feed structure, which is labeled with "RF IN" and "RF OUT" ports.