WH00201000-100W (20~1000MHz, 100W)

The WH00201000-100W is covered wide band frequency 20 to 1,000MHz with minimum Psat 100W across the specified Temperature range and environmental condition. This is suitable for testing in Laboratory as Drive HPA and jamming in HF, VHF, UHF frequency band. This compact module utilizes high power advanced Wavice RF GaN devices that guaranteed excellent power density and low distortions. Outstanding performance and long-term reliability are applied by employing advanced broadband RF matching networks and combining techniques. This compact module utilizes the latest high power Wavice RF GaN transistors and also features built-in control and monitoring, with protection functions to ensure high availability.

▶ Features

- Saturated power 100W Typ.
- Wide bandwidth, 20 to 1,000 MHz
- High gain, 55 dB typ.

ELECTRICAL SPECIFICATIONS @ +50 VDC, 25°C, 50 Ω System

Parameter	Symbol	Min	Typ	Max	Unit
Operating Frequency	BW	20		1000	MHz
Output Power @CW	P_{SAT}		100		W
Small Signal Gain	G_{ss}		55		dB
Power Gain Flatness	ΔG		±3.0		dB
Input return loss	S_{11}			-10	dB
Operating Voltage	V_{DC}	48	50	52	V
Current Consumption @Pout = 100W	I_{DD}		15	20	A
Quiescent Current	I_{DQ}		3.0		A

ENVIRONMENTAL CHARACTERISTICS (Design to meet)

Parameter	Symbol	Min	Typ	Max	Unit
Operating Case Temperature	T_c	-20		+50	°C

MECHANICAL SPECIFICATIONS

Parameter	Value	Units	Limits
Dimension (W x L x H)	150x110x25	mm	
RF Connectors In/Out	Input : SMA(Female), Output : N(Female)	-	
Interface Connector	D-Sub 7W2(Male)	-	
Cooling	External Heatsink	-	

INTERFACE CONNECTOR – D-Sub D-Sub 7W2, Male

Pin #	Description	Specifications
1	NC	NC
2	Current Monitor	Outputs analog voltage related to main current @10mV / 100mA
3	Temp Monitor	Outputs analog voltage related to temperature @10mV/˚C + 500mV
4	NC	NC
5	Shutdown	Low enable, High Disable (3.3V), Internally pull down
A1	VDD	+50VDC
A2	GND	GND

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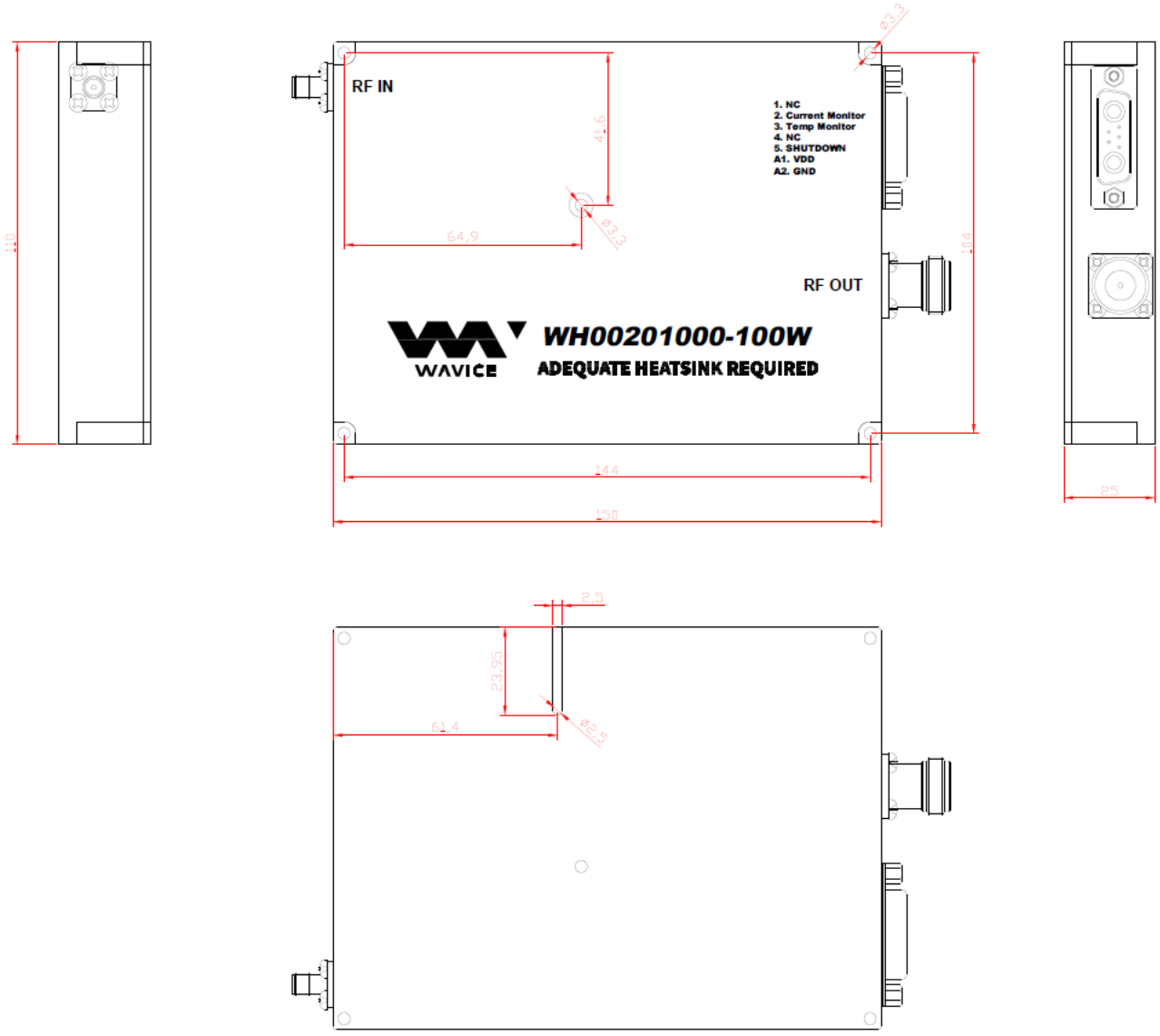
OUTLINE DRAWING



[Unit : mm]

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