

# Specification for 2110-2170MHz 100W Amplifier

Model Name : RCA2100H50CW

Parameter	Specification	Remark
Frequency Range	2110 to 2170 MHz	
Power Output P1dB	50 dBm(100W )	CW operation
Gain	45 ± 0.5 dB	
Flatness	Peak to Peak 2dB	
Gain Stability	± 1.dB	About Temp.
In/Out VSWR	Less than 1.5:1	
DC Input(3W3S)	27 ± 1 VDC	
DC Current	12 A Max. Typ : 11A	@ 100 W output
SIZE	170 * 135 * 25 mm	
Operation Temperature	-20℃ ~ +60℃	
RF I/O	1. RF OUT	
( SMA Fe Male )	2. RF IN	
I/O Map	1. GND	
(D-Sub 9 PIN F)	2. Over power alarm @ shut down ( high 5V @ Peak power 54dBm ±1 dB)	
	3. VSWR fail alarm ( high @ 3:1) & shut down * Shut down start level : over reflect power 20W ** Shut down time : 2 sec after antenna cable disconnect at 100W	
	4. Do not connect ( temperature monitor)	
	5. Over temp alarm & shutdown ( high 5V @ case temperature 85℃ ±5℃) Auto Restart (@ case temperature 65℃ ±5℃)	
	6. Enable ( active low) * Current is max 1 Ma **.Method is pull up	
	7. Do not connect ( reversed)	
	8.Forward power monitor ( 4V ±0.1V @ 50dBm, 0.1V ± 0.01/ dB) * Detector is AD8362 ( real power detector) ** Power monitor range ( 1V ~ 4V )	
	9. Reflect power monitor * 10W ~ 100W ( 0.2 ~ 1V)	

