

Specification of 1800-2000MHz 200W RFcore amplifier

Model Name : RCA18-20H53A

	Parameter	Specification	Remark
1	Frequency Range	1800 to 2000 MHz	
2	Power Output @Output Connector	200W(Psat)	CW operation
3	Gain @ Fcenter	55 ± 1 dB	Small signal Gain (-15 dBm input)
4	Flatness	4 dB peak to peak	
5	Maximum input power	5 dBm	Do not exceed 5 dBm
6	DC Input(3W3S)	28 VDC	Voltage at DC input Connector
7	DC Current @ rating output power	26A max (@Fcenter)	(@ Output power = 200W)
8	SIZE	214 * 178 * 25 mm	
9	Operation Temperature	-20℃ ~ +70℃	Base Plate temperature
10	RF I/O	1. RF OUT –N type Female	
		2. RF IN – SMA Female	

I/O Map (D-Sub 9 PIN M)	1. N.C.
	2. Temperature monitor $V_T = 0.02(V) * T(^{\circ}C) + 1(V)$, T=Case Temperature ± 5℃
	3. Disable (High : Disable, Low : Enable), pulled-up @ 5V with 20Kohm
	4. N.C.
	5. VSWR Fail alarm (> 3 : 1)
	6. GND
	7. Power Monitor : Log Slope detector $V_{pin7} = 4 \pm 0.2 @ CW 53dBm$, slope:0.1V/dB $V_{pin7} = 4 - (53-Pout)*0.1 \pm 0.3V$
	8. N.C.
	9. N.C.

Mechanical Drawing

Model

Dimension (WXDXH) : 214(W) * 178(D) * 25(H)mm

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