

Specification of 800-1000MHz 200W RFcore amplifier

Model Name : RCA08-10H53A

| | Parameter | Specification | Remark |
|----|----------------------------------|--------------------------|-----------------------------------|
| 1 | Frequency Range | 800 to 1000 MHz | |
| 2 | Power Output @Output Connector | 200W(Psat) | CW operation |
| 3 | Gain @ Fcenter | 55 ± 1 dB | Small signal Gain (-15 dBm input) |
| 4 | Flatness | 5 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 | 33A max (@Fcenter) | (@ Output power = 200W) |
| 8 | SIZE | 234 * 170 * 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 | |

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|----------------------------|--|
| 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 $V_{pin7} = 4 - (53 - P_{out}) * 0.1 \pm 0.3V$ |
| | 8. N.C. |
| | 9. N.C. |

Mechanical Drawing

Model

Dimension (WXDXH) : 234(W) * 170(D) * 25(H)mm

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