

Band-Specific High Power Amplifier

Product Name : RCA2100H50CW , Code Name : C2Y6SD3OI45

Doc. Name : General Spec.

<p>General Specification for RCA2100H50CW</p>

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The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

Email: sales@rfcore.com

<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc ≅ 35 °C
Parameter	Specification	Remark
Frequency Range	2110 ~ 2170 MHz	
Output Power @ P1dB	50 dBm min.	
Small Signal Gain @ Center Frequency	45 ± 0.5 dB	Input = -15dBm , Operating temp.
Gain Flatness	Peak to Peak 2 dB	Input = -15dBm, Over Freq Band & Temp
Gain Stability	± 1.0 dB	Operating temp.
Maximum Input Power	10 dBm max	
Input / Output VSWR	Less than 1.5 : 1	
DC Input Current	12 A max. 11 A typ.	@ Pout = 100W Tcase ≅ 35°C
DC Input Voltage	+27 ± 1.0 Vdc	
RF Input Signal Format	CW	
I/O Map	<ol style="list-style-type: none"> 1. GND 2,7. Do not connect 3. VSWR Fail Alarm 4. Temperature Monitor 5. Over Temp Alarm 6. Enable (Active low) 8. Forward Power Monitor 9. Reflected Power Monitor 	Alarm : reflected power = 25~ 50W @ Fcenter VT= 3.6 - 0.022 x (T-30) T = Case Temperature± 5°C Alarm & Shutdown : High(5V) @ case temp. 85 ± 5°C Auto Restart : LOW(0V) @ case temp. 65 ± 5°C pulled-up@5V with 10KΩ @ CW 50dBm, slope : 0.1V/dB Vpin8 = 4-(50-Pout)x0.1±0.1V Vpin9 is Diode type Detector. Diode has non-linear log slope characteristic. PA shutdown when Vpin9 reach 1.4 ± 0.1Vdc @ Fcenter

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 °C	
Storage Temperature	-40 ~ 85 °C	

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