

# Broadband High Power Amplifier

Product Name : RCA0510H50S, Code Name : C3Y6ND7UN50

Doc. Name : Preliminary Short Spec.

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<p align="center"><b>Preliminary Short Specification</b> for <b>RCA0510H50S</b></p>
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*The Specifications is subject to change before finalization*

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# Broadband High Power Amplifier

Product Name : RCA0510H50S, Code Name : C3Y6ND7UN50

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ELECTRICAL SPECIFICATIONS		@ 50 Ω load, Tcase = 35°C, 28Vdc
Parameter	Specification	Remark
Frequency Range	500 ~ 1000 MHz	
Saturated Output Power	100W typ. 80W min.	
Small Signal Gain at center frequency	50 ± 1.0 dB	Input Power = -15dBm
Gain Flatness	Peak to Peak 3 dB	Input Power = 0 dBm
Maximum Input Power	7 dBm max.	
Input VSWR	2 : 1 max	
Output VSWR	2.5 : 1 max.	Power supply is TURN OFF.
DC Input Voltage Range	28 ± 1.0 Vdc	
Current Consumption	15 A typ. 18 A max.	@ Pout = 100 W If Output Power is not reached 100W, Current consumption is measured at Psat.
RF Input Signal Format	CW	

Interface Pin Description		
Connector	Description	Specification
DC Connector(3W3P)	A1: Vcc	
	A2: GND	
	A3: Do not connect	
I/O Interface(D-Sub 9Pin Male)	1. GND	
	2. Do not connect	
	3. VSWR Fail Alarm	Alarm : reflected power = 25~ 50W @ Fcenter
	4. Temperature Monitor	VT= 3.6 - 0.022 x ( T-30) T = Case Temperature ± 5°C
	5. Over Temp. Alarm	Alarm & Shutdown : High(5V) @ case temp. 85 ± 5°C Auto Restart : LOW(0V) @ case temp. 65 ± 5°C
	6. Enable (Active Low)	Pulled up @ 5V with 10kohm PA Enable : TTL "Low" PA Shutdown : TTL "High" or Open
	7. Do not connect	
	8. Forward Power Monitor	Vpin8 is the output voltage of diode detector. It has non-log slope characteristic.
	9. Reflected Power Monitor	Vpin9 is the output voltage of diode detector. It has non-log slope characteristic.

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