

# Broadband High Power Amplifier

Product Name : RCA0810H53S

Doc. Name : Preliminary Short Spec.

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<p style="text-align: center;"><b>Preliminary Short Specification</b> for <b>RCA0810H53S</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2014/5/13	2017/1/17		B	<b>RFcore co.,Ltd</b>
File : RCA0810H53S Short Spec_revB.docx				

*The Specifications is subject to change before finalization*

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ELECTRICAL SPECIFICATIONS		
@ 50 Ω load, Tcase = 35°C, 28Vdc		
Parameter	Specification	Remark
Frequency Range	800 ~ 1000 MHz	
Saturated Output Power	200 W min.	
Small Signal Gain @ Center Frequency	55 ± 1.0 dB	Input = -15 dBm
Gain Flatness	Peak to Peak 4 dB	Input = -15 dBm, Over Freq .Band
Maximum Input Power for no damage	5 dBm max.	
Input / Output VSWR	Less than 2 : 1	
RF Input Signal Format	CW	
Current Consumption	22A max.	
DC Input Voltage	28 ± 1.0 Vdc	

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. Do not connect	
	2. Temperature Monitor	$VT = \{0.02(V/^{\circ}C) * T(^{\circ}C) + 1.0V\} \pm 0.1V$ T=Case Temperature ± 5°C
	3. Enable (Active low)	pulled-up@5V with 20KΩ
	4. Do not connect	
	5. VSWR Fail Alarm	Alarm : High(5V)
	6. GND	
	7. Forward Power Monitor	4±0.3V @ CW 53dBm,slope : 0.1V/dB Vpin7 = 4-(53-Pout)x0.1±0.3V
	8. Do not connect	
	9. Do not connect	

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

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	250 * 170 *28 mm	
RF Input Connector	SMA Female	
RF Output Connector	N- Female	
DC Power Connector	3W3P(A1 : Vcc, A2 : GND, A3 : N.C)	
Control Connector	D – SUB 9Pin Male	
Cooling	Adequate Heat-sink required	

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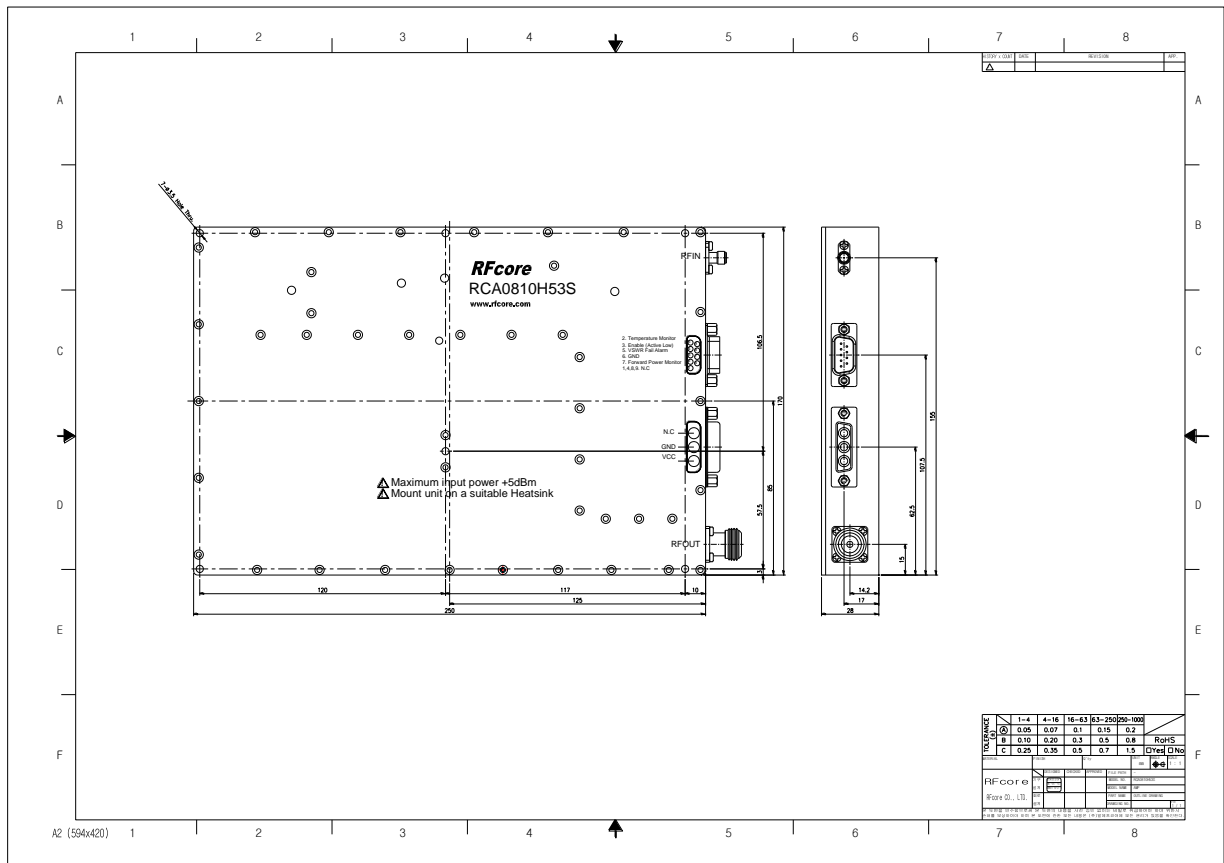
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## MECHANICAL DRAWING



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