

# Broadband High Power Amplifier

Product Name : RCA0530H42B, Code Name : B8Y6SD3UN48

Doc. Name : Preliminary Short Spec.

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<p style="text-align: center;"><b>Preliminary Short Specification</b> for <b>RCA0530H42B</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2013/3/14	2013/7/29		G	<b>RFcore co.,Ltd</b>
File : RCA0530H42B Short Spec.docx				

*The Specifications is subject to change before finalization*

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	500 ~ 3000 MHz	
Saturated Output Power	42 dBm min.	@ CW
Small Signal Gain	42 dB min.	Input Level = - 15 dBm
Gain Flatness	Peak to Peak 6 dB	Input Level = - 15 dBm
Gain Stability	± 2.0 dB	Operating temp.
Maximum Input Power for no damage	5 dBm	
Input VSWR	Less than 2 : 1	
DC Input Voltage	28 ± 1.0 Vdc	
Current Consumption	1.8A typ., 3.0 A max.	@ Pout = 42 dBm
RF Input Signal Format	CW	

Interface Pin Description		
Connector	Description	Specification
I/O Interface(D-Sub 9Pin Male)	1. Enable(Active Low)	Pulled-up @ 5V with 10kohm
	2. Forward Power Monitor	Logarithmic Detector
	3. Do not connect	
	4. Reflected Power Monitor	Logarithmic Detector
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature ± 5°C
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

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

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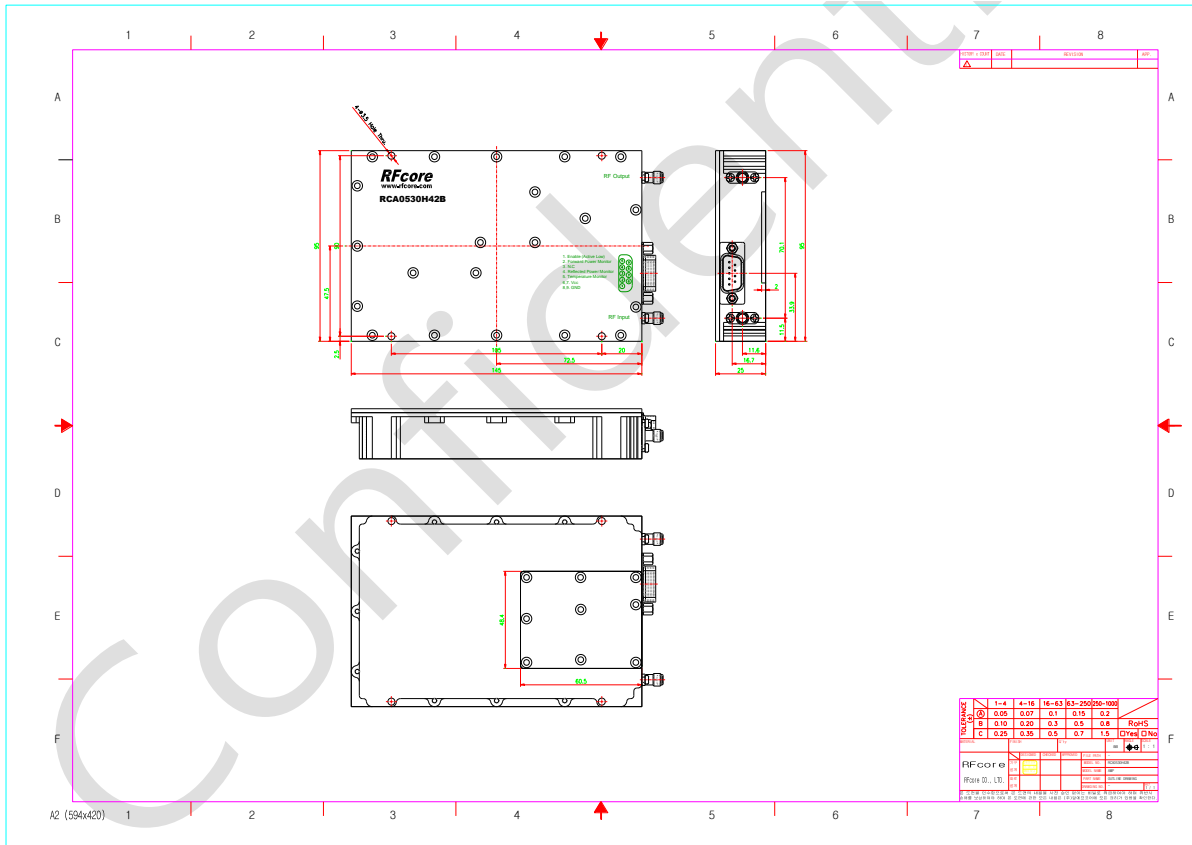
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## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	145 * 95 * 25 mm	
Weight	Less than 530 g	
Input Connector	SMA Female	
Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

## MECHANICAL DRAWING



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