

# Broadband High Power Amplifier

Product Name : RCA18-22H46CWB, Code Name : B1Y6SD3UI45

Doc. Name : General Spec.

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<p style="text-align: center;"><b>General Specification</b> for <b>RCA18-22H46CWB</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2010/9/1	2017/2/6		B	<b>RFcore co.,Ltd</b>
File : RCA18-22H46CWB General Spec.docx				

*The Specifications is subject to change before finalization*

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<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc ≈ 35 °C
Parameter	Specification	Remark
Frequency Range	1800 ~ 2200 MHz	
Saturated Output Power	46 dBm	@ CW, Tcase ≈ 35°C
Small Signal Gain	45 ± 1.5 dB	Input Level = - 15 dBm, Tcase ≈ 35°C
Gain Flatness	Peak to Peak 3 dB	Input Level = - 15 dBm, Over Freq. band
Input VSWR	2 : 1 max	
Output VSWR	2 : 1 max	
DC Input Voltage	27 ± 1.0 Vdc	
Current Consumption	4.2 A max. 3.9 A typ.	

Interface Pin Description		
Connector	Description	Specification
I/O Interface(D-Sub 9Pin Male)	1. Temperature Monitor	VT = 0.02*T + 1.0 (V) T is Case Temperature in degC ± 5°C
	2. Power Monitor	Log slope detector
	3. GND	
	4. Reflected Power Monitor	Diode type detector
	5. VSWR Fail Alarm	High(5V) When Vpin4>1.4±0.1 V
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable(Active Low)	Pulled-up @ 5V with 10kohm

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ +60 °C	
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	110 * 90 * 22 mm	
Input / Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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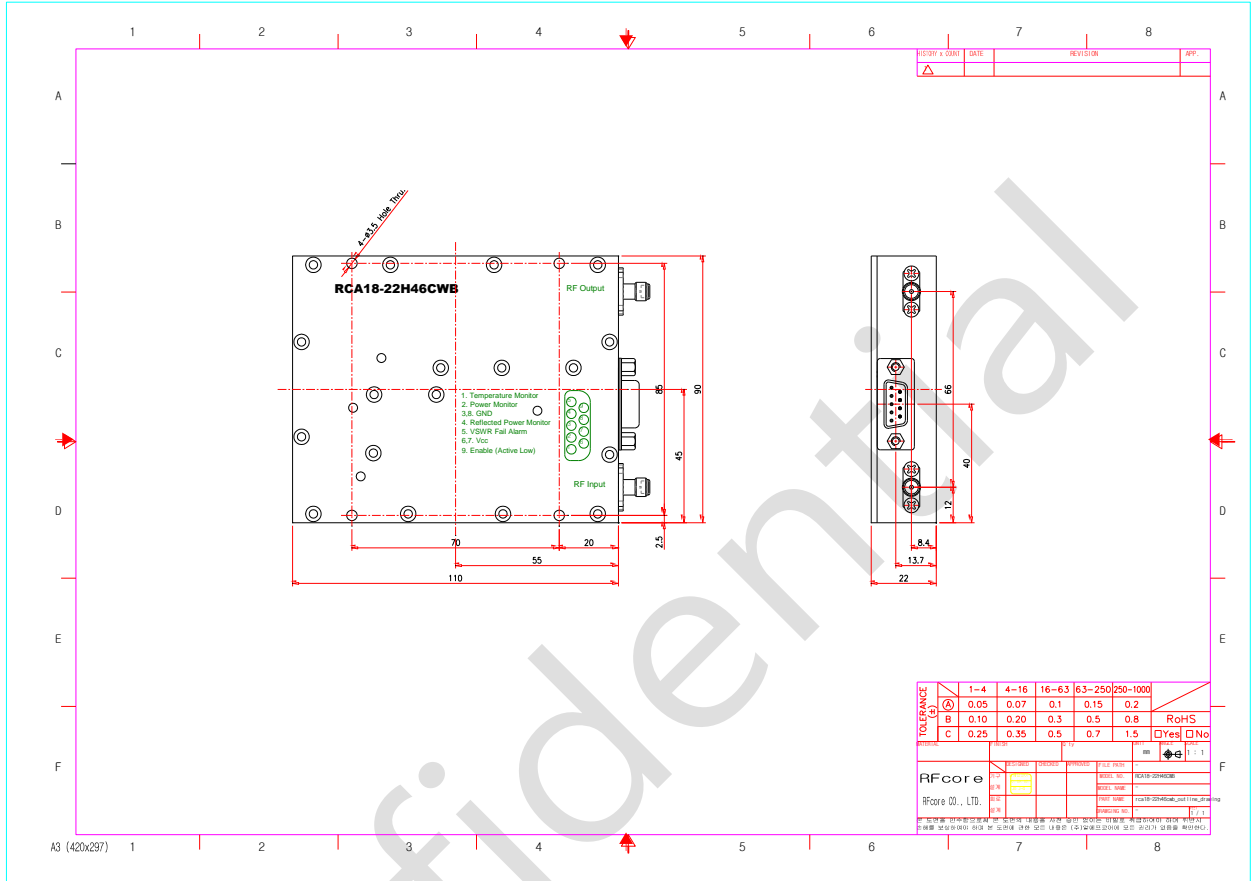
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## MECHANICAL DRAWING



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