

Broadband High Power Amplifier

Product Name : RCA08-10H46CWB, Code Name : B6Y6SD3UI40

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA08-10H46CWB</p>

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Created	Printed	Document Number	Revision	Manufacturer
2012/4/4	2017/1/12		C	RFcore co.,Ltd
File : RCA08-10H46CWB 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	800 ~ 1000 MHz	
Saturated Output Power	46 dBm min.	@ CW
Nominal Gain	40 ± 1 dB	
Gain Flatness	Peak to Peak 2.5 dB	Over Freq. band
Input VSWR	1.5 : 1 max.	
Output VSWR	1.5 : 1 max.	
DC Input Voltage	27 ± 1.0 V	
Current Consumption	5.5 A max.	@ Psat

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	4 ± 0.1@CW 46 dBm Vpin2 = 4-(46-Pout)*LSP±0.1 (V) LSP(log slope): 0.1V/dB
	3. GND	
	4. Reflected Power Monitor	Vpin4 = 1.4 ± 0.1 V when Reflected Power = 40 ~ 43dBm
	5. VSWR Fail Alarm	Vpin5 = High(5V) When Vpin4>1.4 ± 0.1 *Alarm status is not latched. Alarm cleared once Reflectd Power Monitor voltage go down 1.4 ± 0.1
	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	

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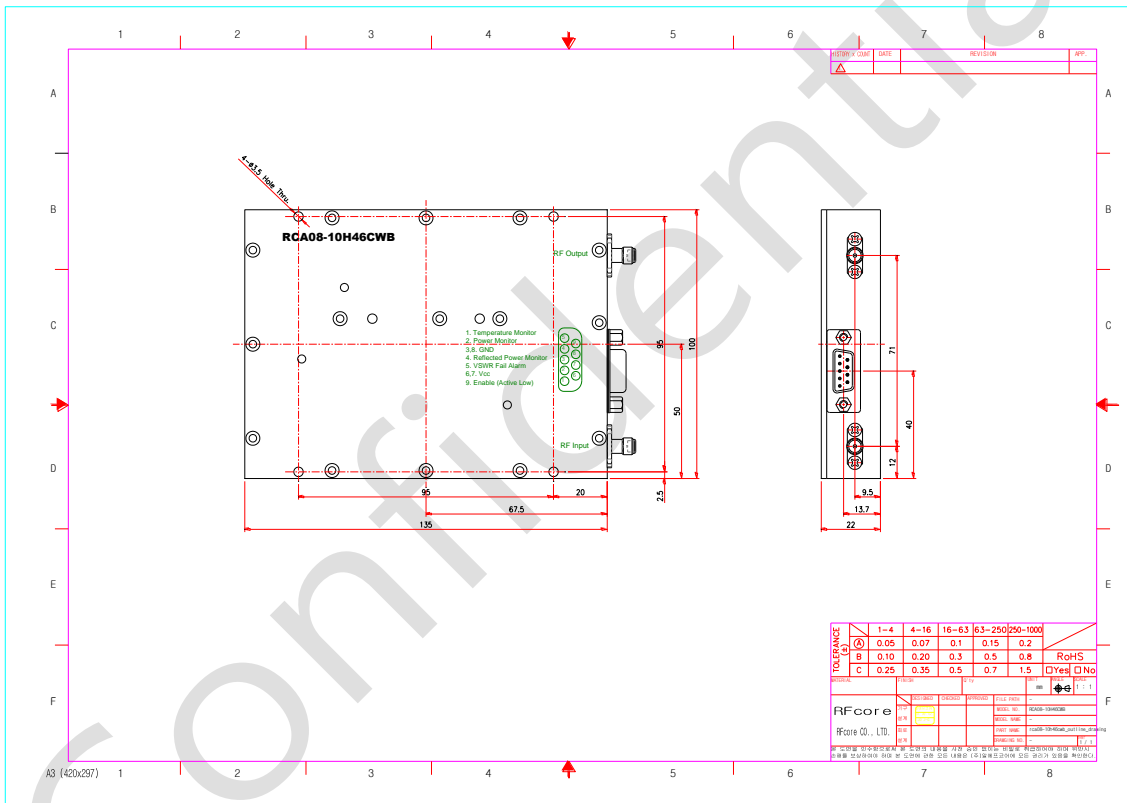
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	135 * 100 * 22 mm	
Input / Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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