

Broadband High Power Amplifier

Product Name : RCA1922H47A, Code Name :

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA1922H47A</p>
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1

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Created	Printed	Document Number	Revision	Manufacturer
2015/1/20	2015/4/21		A	RFcore co.,Ltd
File : RCA1922H47A Short Spec.docx				

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

Email: sales@rfcore.com

<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	1900 ~ 2190 MHz	
Saturated Output Power	47 dBm min.	@ CW
Small Signal Gain @ Center frequency	47 ± 1.0 dB	Input level = -15dBm
Small Signal Gain Flatness	Peak to Peak 3.0 dB	Input level = -15dBm
Maximum Input Power for no damage	10 dBm max.	
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	
DC Input Voltage	28 ± 1.0 Vdc	
Current Consumption	7 A max.	@ Pout = 47dBm
I/O Interface(D-Sub 9Pin Male)	1. Temperature Monitor	VT = 0.02*Tc + 1.0 (V) Tc is Case Temperature in degC ± 5°C
	2. Forward Power Monitor	4.0±0.2@47dBm, slope : 0.1V/dB Vpin2 = 4.0-(47-Pout)x0.1±0.2V
	3. GND	
	4. Reflected Power Monitor	Diode Detector
	5. VSWR Fail Alarm	Alarm : TTL High Reflected power = 40~43dBm (Vpin4=1.4±0.1V) @Fcenter
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable(Active Low)	Pulled-up @ 5V with 10kohm

2

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

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	110 * 90 * 25 mm	
Input / Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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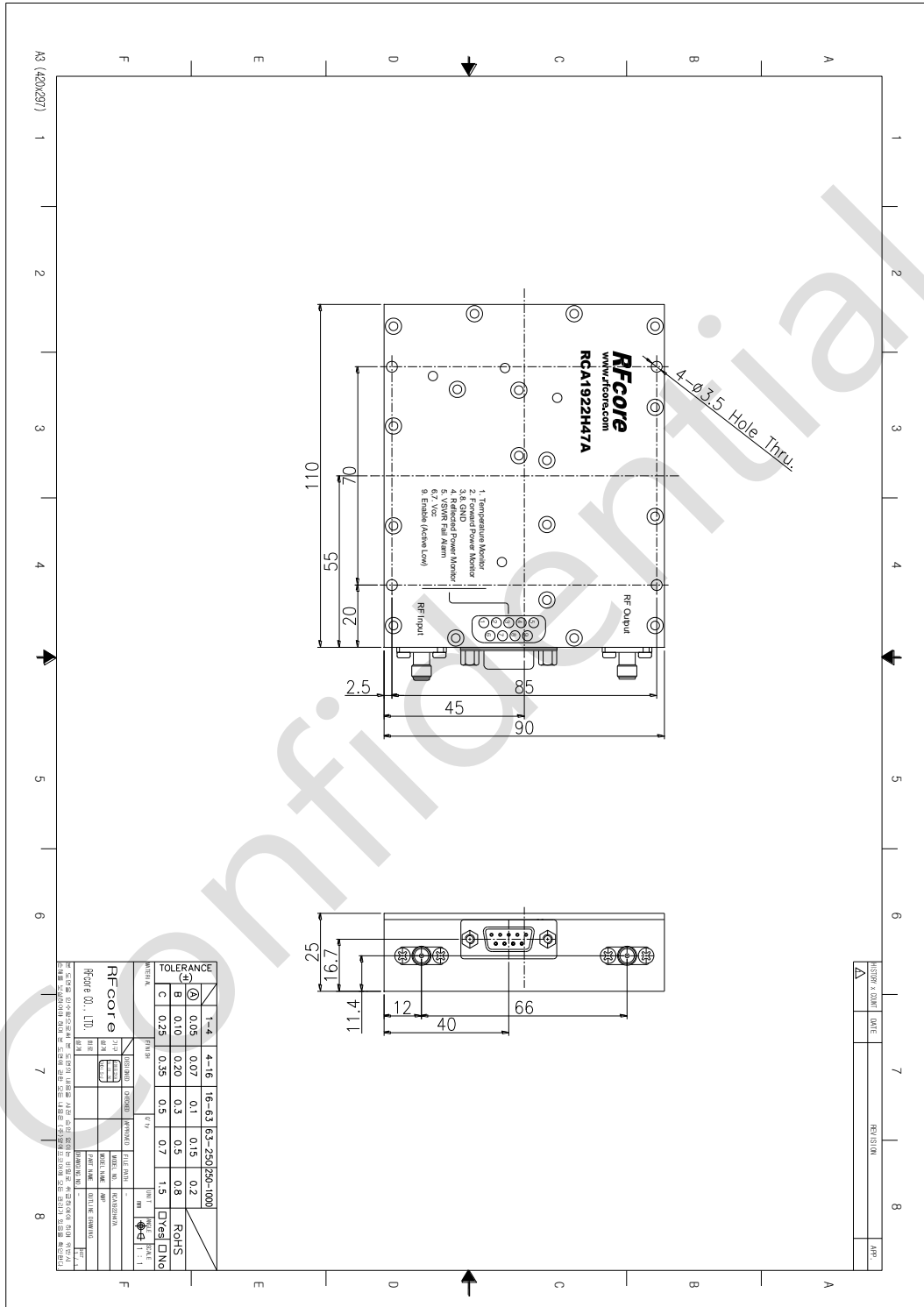
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MECHANICAL DRAWING



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