

# Broadband High Power Amplifier

Product Name : RCA2030H47D2, Code Name :

Doc. Name : General Spec.

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<p style="text-align: center;"><b>General Specification</b> for <b>RCA2030H47D2</b></p>
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1

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Created	Printed	Document Number	Revision	Manufacturer
2016/9/9	2017/2/6		B	<b>Rfcore co.,Ltd</b>
File : RCA2030H47D2 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, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	2000 ~ 3000 MHz	
Saturated Output Power @ 28VDC	40W min. 50 W typ.	@ CW
Saturated Output Power @ 22VDC	30 W typ., 20 W min.	@ CW
Gain @ 28VDC	47 dB min.	Input Power = -15dBm
Gain @ 22VDC	43 dB min.	Input Power = -15dBm
Gain Flatness @ 28VDC	Peak to Peak 4.0 dB	Input Power = -15dBm
Gain Flatness @ 22VDC	Peak to Peak 6.0 dB	Input Power = -15dBm
Maximum Input Power for no damage	7 dBm	
Input VSWR	Less than 2 : 1	
Maximum load VSWR for amplifier working	3.5 : 1	Works with degraded performance.
Maximum load VSWR for amplifier survival	10 : 1	
ON/OFF Switching time	Less than 1 msec	
DC Input Voltage	22 ~ 30 Vdc	
Current Consumption @ 28VDC	6.5 A typ., 7.5 A max.	@ Pout = 40W CW
Current Consumption @ 22VDC	3.5 A typ., 4.5 A max.	@ Pout = 20W CW
RF Input Signal Format	CW	

2

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## 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(0.05V/dB)
	3. Do not connect	
	4. Reflected Power Monitor	Logarithmic Detector(0.05V/dB)
	5. Temperature Monitor	$V_T = 10(\text{mV}) * T_c(^{\circ}\text{C}) + 500(\text{mV})$ , $T_c = \text{Case Temperature} \pm 5^{\circ}\text{C}$
	6. VCC	
	7. VCC	
	8. GND	
	9. GND	

## ENVIRONMENTAL SPECIFICATIONS

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

3

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	145 * 95 * 25 mm	
Weight	Less than 650 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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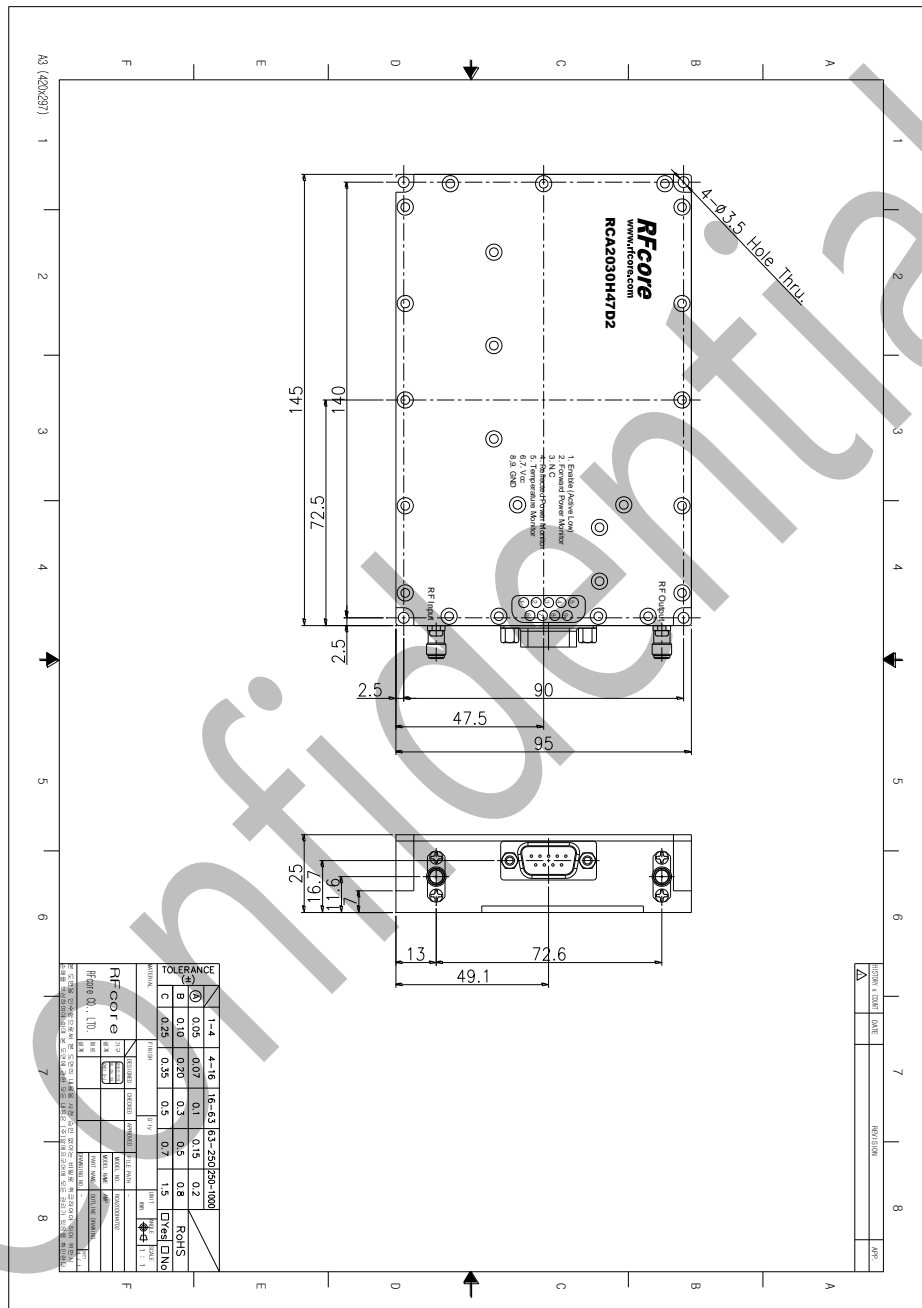
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## MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

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