

# Broadband High Power Amplifier

Product Name : RCA00205H47C, Code Name :

Doc. Name : Preliminary Short Spec.

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<p style="text-align: center;"><b>Preliminary Short Specification for RCA00205H47C</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2014/8/19	2018/3/5		A	<b>RFcore co.,Ltd</b>
File : RCA00205H47C Preliminary Short Spec.docx				

*The Specifications is subject to change before finalization*

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	20 ~ 500 MHz	
Output Power	47dBm min	@ CW, 50 ohm load
Small Signal Gain	47dB min.	Input level = -15dBm
Large Signal Gain Flatness	Peak to Peak 4dB	Input level = 7dBm
Small Signal Gain Flatness	Peak to Peak 5dB	Input level = -15dBm
Harmonics Output Power	2 <sup>nd</sup> : -20dBc min. 3 <sup>rd</sup> : -9dBc min.	@ Pout = 47dBm
Input VSWR	Less than 1.5 : 1	
DC Input Voltage	+28V ± 1 Vdc	
Current Consumption	6A typ. , 6.5A max	@ Pout = 47dBm

Interface Pin Description		
Connector	Description	Specification
I/O Interface (D-SUB 9 Pin Male)	1. Enable(Active Low)	
	2. Forward Power Monitor	Logarithmic Detector
	3. Do not connect	Reserved
	4. Reflected Power Monitor	Logarithmic Detector
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature±5°C
	6. Vcc(+28V)	
	7. Vcc(+28V)	
	8. GND	
	9. GND	

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

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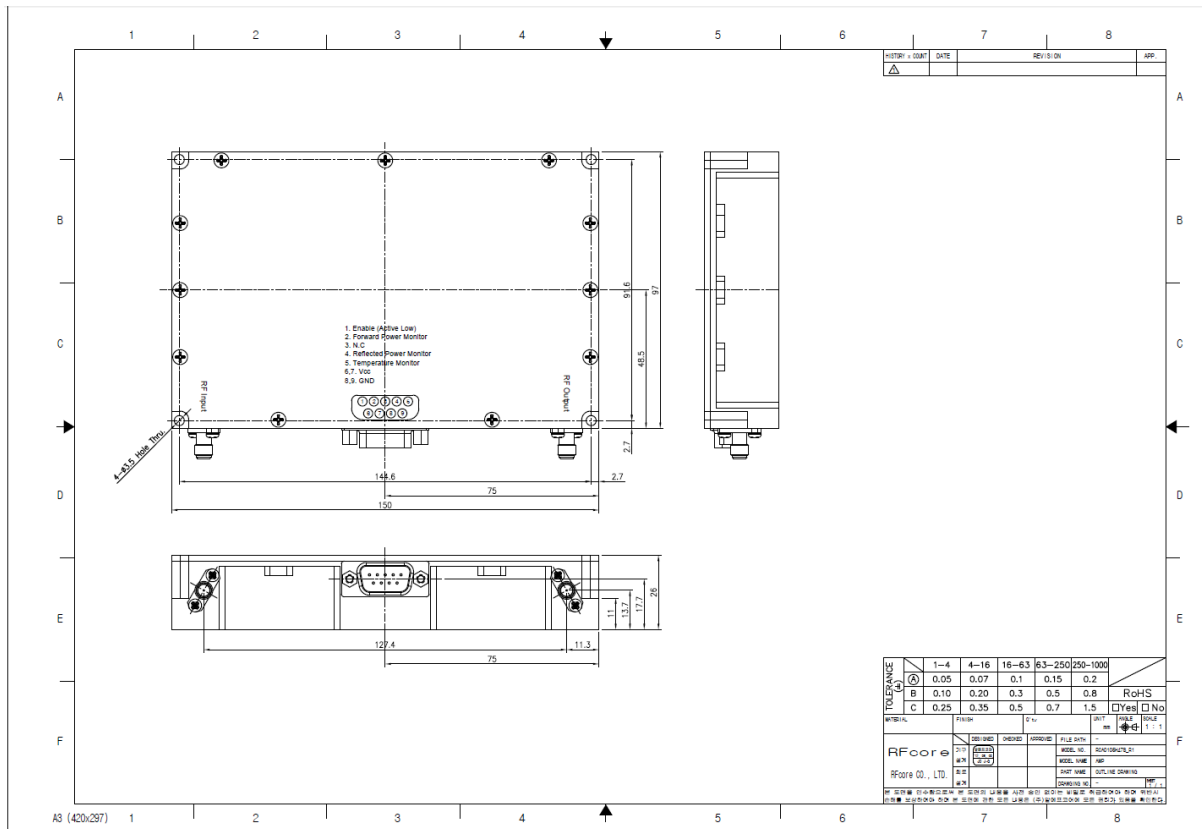
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## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	150 X 97 X 26 mm	
Weight	Less than 550g	
RF Input Connector	SMA – Female	
RF Output Connector	SMA – Female	
DC & Interface Connector	D-Sub 9 Pin Male	
Cooling	Adequate Heat-sink required	

## MECHANICAL DRAWING



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