

# Rack Mountable System Amplifier

Product Name : RCA0820U50

Doc. Name : Preliminary Short Spec.

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## Preliminary Short Specification for RCA0820U50

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Created	Printed	Document Number	Revision	Manufacturer
2010/4/21	2012/6/25		A	<i>RFcore co.,Ltd</i>
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*The Specifications is subject to change before finalization*

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<http://www.rfcore.com>

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## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Remark
Frequency Range	800 ~ 2000 MHz	
Saturated Output Power	100 Watts min	
Input Power for Rated Output	0 dBm max	
Small Signal Gain	57 dB min	
Gain Flatness	± 2.5 dB max	
Input VSWR	2 : 1 max	
Harmonics	-15 dBc min @ 100 Watts	
Spurious Signal	-60 dBc max @ 100 Watts	
Primary Supply Voltage	220VAC	176 ~ 264VAC / 47 ~ 63 Hz
Power Consumption	700 Watts max @ 100 Watts	
RF Input Signal Format	CW	
Input / Output Impedance	50 Ohms nominal	

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## ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Ambient Temperature	0 ~ 50 °C	
Storage Temperature	-40 ~ 85 °C	

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	19" x 5.25" x 20" Max	
Weight	Less than 22 kg	
RF Input / Output Connector	N – Female	on the back of the system
Connector	D – Sub 9 Pin Male	on the back of the system
Cooling	Built – In Forced – Air System	

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SELF PROTECTIONS		
Parameter	Specification	Remark
Input Overdrive	3 dBm $\pm$ 1 dB	In case exceeding this limit amplifier back off gain automatically by about 15dB. Factory Reset
Over Temp Alarm	85 °C $\pm$ 5 °C shutdown	Factory Reset
VSWR Alarm	Load VSWR over 3 : 1	Factory Reset
Over Power Alarm	53 dBm $\pm$ 0.5 dB shutdown	Factory Reset

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# Rack Mountable System Amplifier

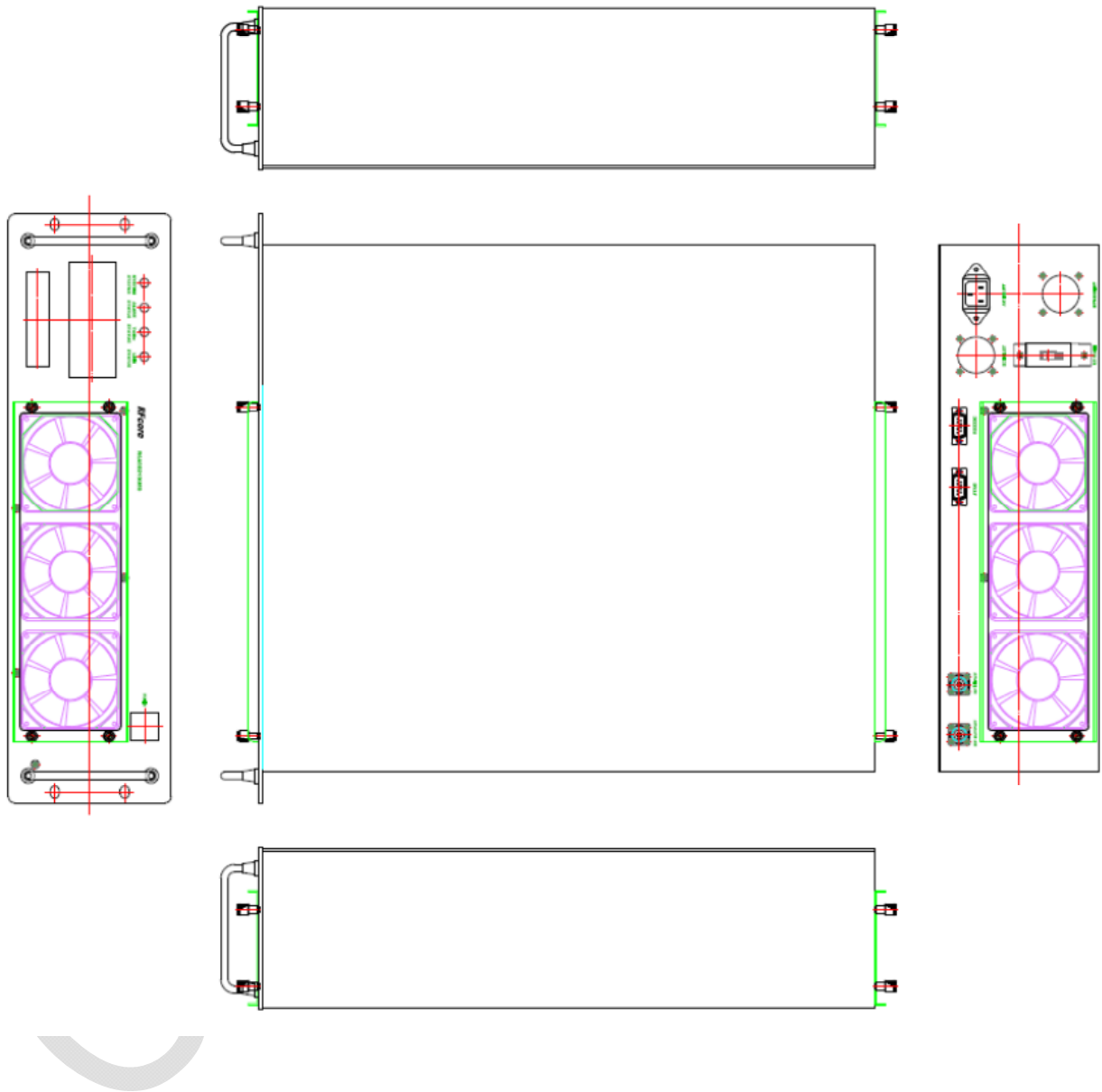
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## MECHANICAL DRAWING

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