

# Band-Specific High Power Amplifier

Product Name : RCA1500H37A1, Code Name :

Doc. Name : Preliminary Short Spec.

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<p><b>Preliminary Short Specification</b> for <b>RCA1500H37A1</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2014/5/28	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA1500H37A1 short Spec.docx				

*The Specifications is subject to change before finalization*

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## ELECTRICAL SPECIFICATIONS

@ 50 Ohms load, 28 Vdc, Tc = 35 °C

Parameter	Specification	Remark
Frequency Range	1500 ~ 1600 MHz	
Saturated Output Power	37 dBm min.	
Large Signal Gain	30 dB min.	Input = 4 dBm
Large Signal Gain Flatness	Peak to Peak 3 dB	Input = 4 dBm
Enable/Disable Time	10 uS max.	
Maximum Input Power - No damage	10 dBm max.	
Input VSWR	Less than 1.5 : 1	
Handling VSWR at the output	3.5 : 1 max.	
DC Input Voltage	28±1.0 Vdc, 5±1.0 Vdc	
DC Current Consumption(+28V)	700 mA max.	480 mA typ.
DC Current Consumption(+5V)	200 mA max.	140 mA typ.
I/O Map	1. GND	
	2. DC +5V	
	3. DC +28V	
	4. Enable	Pulled – up with 10Kohm Open or High(DC +5V) w/o EMI filter(applies capacitors 10pF and 33pF instead of EMI filter)
	5. Reflected Power Monitor	Diode type
	6. Forward Power Monitor	Diode type
	7. N.C	
	8. N.C	
	9. N.C	

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## ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 75 °C	
Storage Temperature	-40 ~ 85 °C	

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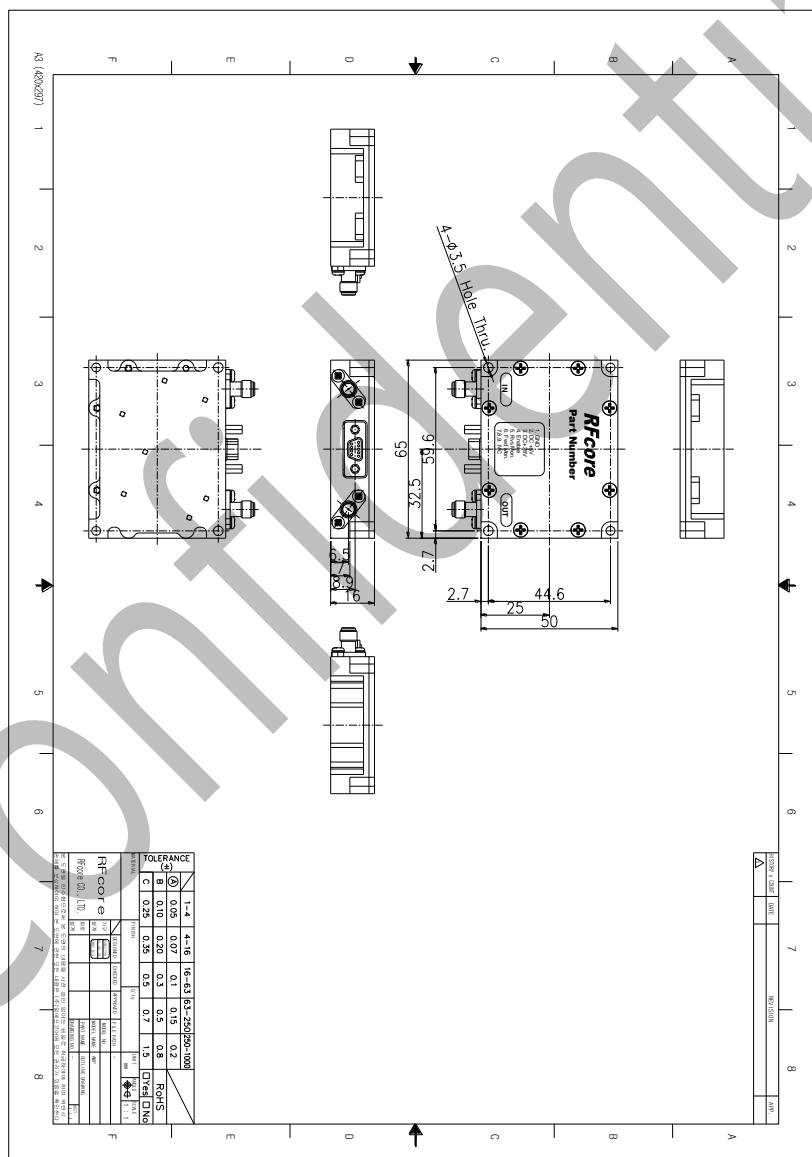
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## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	50 x 65 x 16 mm	
Weight	Less than 100 g	
RF Input / Output Connector	SMA – Female	
Cooling	Adequate Heat-sink required	

## MECHANICAL DRAWING



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