

# Band-Specific High Power Amplifier

Product Name : RCA2527H50D1

Doc. Name : Preliminary Short Spec.

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**Preliminary Short Specification  
for  
RCA2527H50D1**

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Created	Printed	Document Number	Revision	Manufacturer
2014/8/5	2015/9/8		E	<b>Rfcore co.,Ltd</b>
File : RCA2527H50D1_revE 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	2500 ~ 2700 MHz	
Saturated Output Power	50 dBm min.	CW
Gain	47 dB min.	@ Input level = -15 dBm
Gain Flatness	Peak to Peak 3.0 dB	@ Input level = -15 dBm
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 Current @ Pout 50 dBm	13 A typ. , 14 A max	
DC Input Voltage	28Vdc ± 1.0Vdc	
I/O Map	1. GND	
	2. N.C	
	3. N.C	
	4. Temperature Monitor	VT= 3.6 - 0.022 x ( T-30) T = Case Temperature ± 5°C
	5. Over Temp. Alarm	Alarm & Shutdown : TTL High(5V) @ case temp. 85 ± 5°C Auto Restart : TTL LOW(0V) @ case temp. 65 ± 5°C
	6. Enable (Active Low)	pulled-up@5V with 10KΩ Enable = TTL"0"= 0V or GND Disable = TTL/CMOS "1"=3.3-5V
	7. N.C	
	8. Forward power monitor	4V±0.2V @ CW 50dBm, Log slope : 0.1V/dB Vpin8 = 4-(50-Pout)x0.1±0.2V
	9. Reverse power Detector	4V±0.2V @ CW 50dBm, Log slope : 0.1V/dB Vpin9 = 4-(50-Pout)x0.1±0.2V

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

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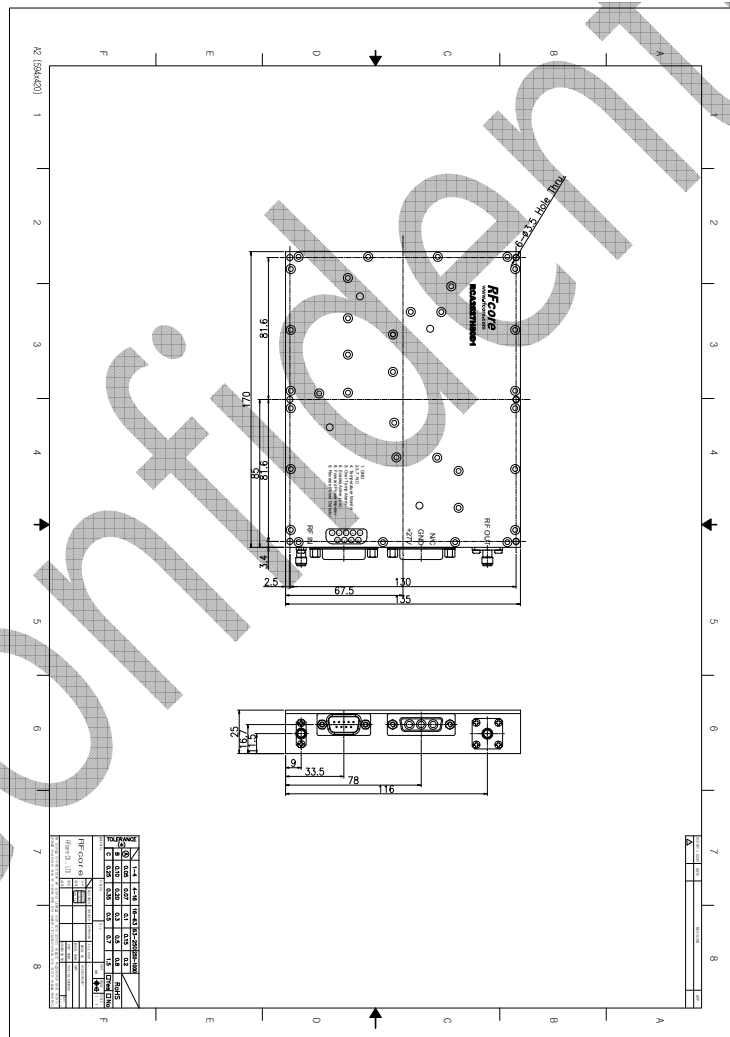
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## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	170 x 135 x 25 mm	
RF Input Connector	SMA-Female	
RF Output Connector	SMA-Female	
DC Connector	3W3 (A1:VCC, A2:GND, A3:N.C)	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

## MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

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