

# Broadband High Power Amplifier

Product Name : RCA100H50D1, Code Name :

Doc. Name : Preliminary Short Spec.

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<p align="center"><b>Preliminary Short Specification</b> for <b>RCA100H50D1</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2016/4/5	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA100H50D1 Short 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	135 ~ 175 MHz	
Saturated Output Power	50 dBm min.	@ CW
Small Signal Gain	50 dB min.	Input Level = - 15 dBm
Small Signal Gain Flatness	Peak to Peak 2.0 dB	Input Level = - 15 dBm
Gain Stability	± 1.0 dB	Operating temp.
Maximum Input Power for no damage	10 dBm max.	
Input VSWR	Less than 1.5 : 1	
DC Input Voltage	28V ± 0.5 Vdc	
Current Consumption	10 A max. 7.5A typ.	@ Pout = 50dBm
I/O Interface (D-Sub 9Pin Male)	1. Enable (Active low)	(Enable = 0V, Disable = 5V) pull-up @ 5V with 10k ohm
	2. Forward Power Monitor	Logarithmic detector (0.05V/dB)
	3. N.C	
	4. Reflected Power Monitor	Logarithmic detector (0.05V/dB)
	5. Temperature Monitor	VT= 0.01 * Tc + 500(mV) , Tc is Case Temperature in degC ± 5°C
	6. N.C	
	7. N.C	
	8. GND	
	9. GND	

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## ENVIRONMENTAL SPECIFICATIONS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	171 * 81 * 27 mm	
Weight	Less than 700 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
DC Connector	3W3P (A1: Vcc, A2: GND, A3: N.C)	
Control Connector	D-sub 9pin Male	
Cooling	Adequate Heat-sink required	

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