

# Broadband High Power Amplifier

Product Name : RCA0530H44E1, Code Name :

Doc. Name : Preliminary Short Spec.

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<p style="text-align: center;"><b>Preliminary Short Specification</b> for <b>RCA0530H44E1</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2015/8/31	2017/1/12		D	<b>RFcore co.,Ltd</b>
File : RCA0530H44E1 Short Spec.docx				

*The Specifications is subject to change before finalization*

Customer Service: Tel. 82-31-708-7575

Email: sales@rfcore.com

<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	500 ~ 3000 MHz	
Saturated Output Power	45 dBm typ. 43 dBm min.	@ CW, 50 ohms load
Small Signal Gain	44 dB min.	Input Level = - 15 dBm
Small Signal Gain Flatness	Peak to Peak 7 dB	Input Level = - 15 dBm
Maximum Input Power for no damage	10 dBm	
Input VSWR	Less than 2.0 : 1	
DC Input Voltage	28 ± 1 Vdc	
Current Consumption	3.5 A typ. 4.5 A max.	@ Pout = 43 dBm
RF Input Signal Format	CW	

Interface Pin Description		
Connector	Description	Specification
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= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature± 5°C
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-30 ~ +70 °C	
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	145 * 95 * 25 mm	
Weight	Less than 590 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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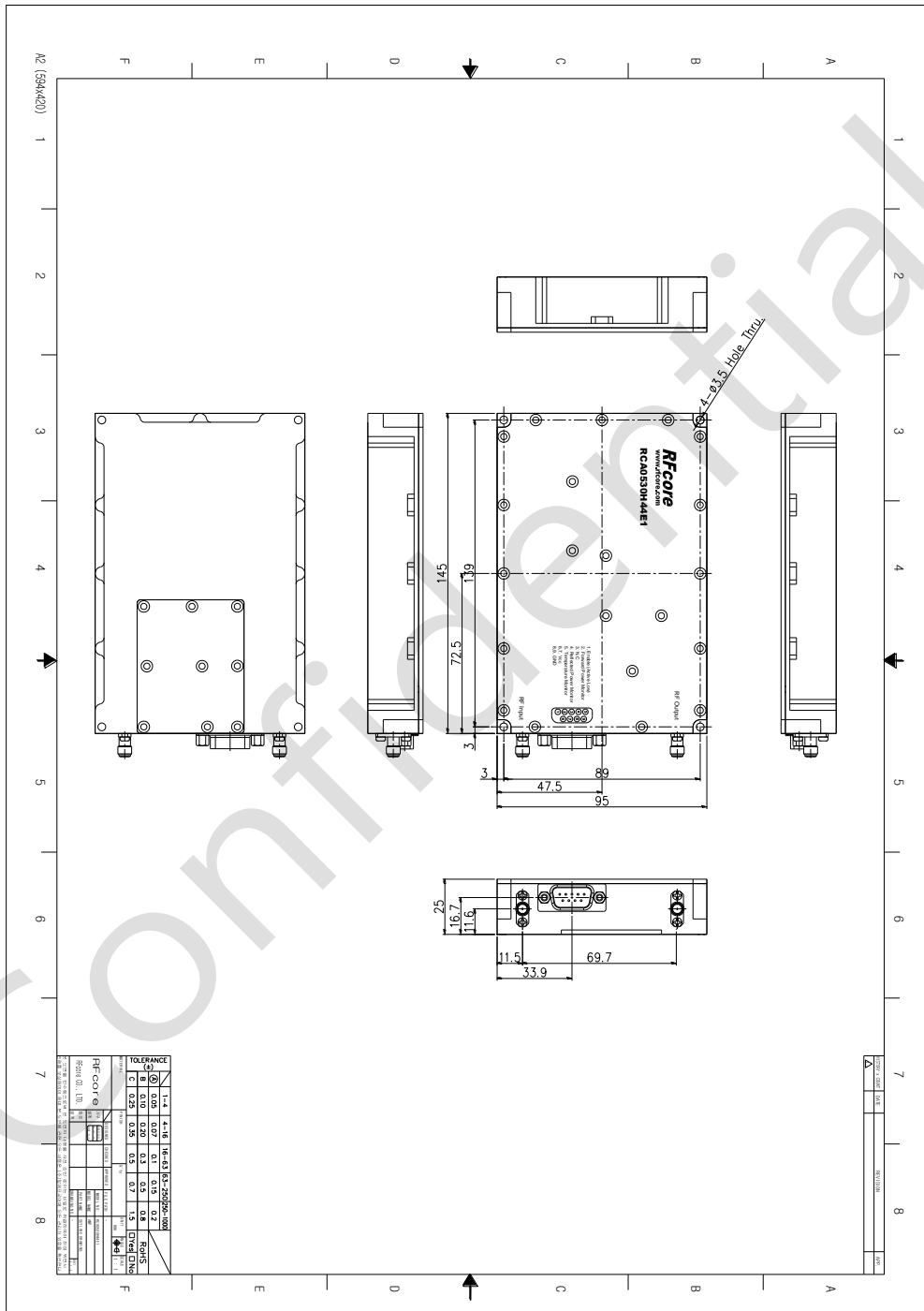
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## MECHANICAL DRAWING



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