

Broadband High Power Amplifier

Product Name : RCA2127H52D4

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA2127H52D4</p>

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Created	Printed	Document Number	Revision	Manufacturer
2018/7/9	2018/11/9		D	RFcore co.,Ltd
File : RCA2127H52D4 General Spec.docx				

The Specifications is subject to change before finalization

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

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	2100 ~ 2700 MHz	
Saturated Output Power	150 Watts min.	@ CW, 50 Ohms load condition
Small Signal Gain	55 dB min.	Input Power = -15 dBm CW
Large Signal Gain	50 dB min.	Input Power = 0 dBm CW
Gain Flatness	Peak to Peak 6 dB	Input Power = - 15 dBm CW
Maximum Input Power for no damage	10 dBm	
Input VSWR	Less than 2 : 1	
2 nd Harmonics	Better than -15 dBc	@ Pout = 150 W CW, 50 Ohms load and also @ Pout = 100 W CW
Quiescent Current	7 A max	RF OFF
Shutdown Current	0.2 A max	Pin 1 = Disable
DC Current Consumption	26 A max. 24 A typ.	@ Pout = 150 W CW, 50 Ohms load
DC Input Voltage	28 ± 1.0Vdc	
RF Input Signal Format	CW	
I/O Map(D-Sub 9Pin Male)	<ol style="list-style-type: none"> 1. Enable(Active Low) 2. Do not connect 3. Do not connect 4. Over Temp. Alarm 5. Temperature Monitor 6. Do not connect 7. Do not connect 8. Forward Power Monitor 9. Reflected Power Monitor 	Enable : GND or TTL Low Disable : OPEN or TTL High Pulled up @ 5 V with 10 kohm Alarm & Shutdown : High(5V) @ case temp. 85 ± 5°C Recovery : Low(0V) @ case temp. 65 ± 5°C VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature± 5°C 3.7V±0.3V@52dBm at the center frequency, Logarithmic Detector(= 0.1V/dB) 3.7V±0.3V@52dBm at the center frequency, Logarithmic Detector(= 0.1V/dB)

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 °C	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ 85 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	329.3 * 188 * 30 mm	w/o connectors
Weight	Less than 3.8 kg	
Input Connector	SMA Type Female	
Output Connector	N Type Female	With a length of 21.7 mm including flange
DC Connector	3W3(A1: VCC, A2 : GND, A3 : N.C)	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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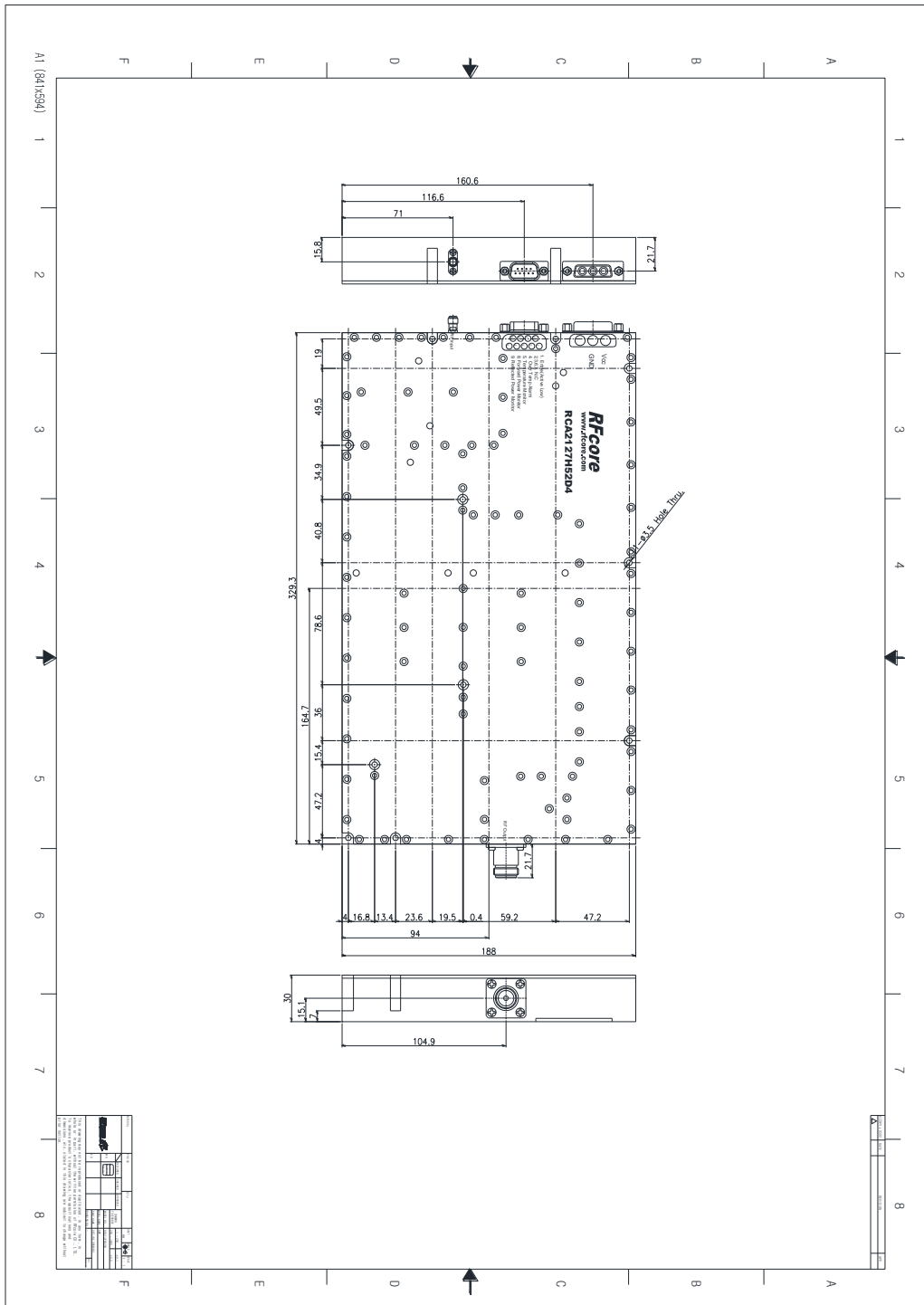
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MECHANICAL DRAWING



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