

Broadband High Power Amplifier

Product Name : RCA90100H52A, Code Name :MK16090001

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA90100H52A</p>

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Created	Printed	Document Number	Revision	Manufacturer
2014/10/22	2016/9/21		D	RFcore co.,Ltd
File : xxxx General Spec.docx				

The Specifications is subject to change before finalization

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ELECTRICAL SPECIFICATIONS	@ 50 Ohms load, Tc = 35 °C	
Parameter	Specification	Remark
Frequency Range	9.0 ~ 10.0 GHz	
Pulsed Saturated Output Power	150W Typical, 100W min. Do not exceed 40W average output power.	Maximum PW : 200us Maximum Duty : 15%
Small Signal Gain	63dB Typical (TBD)	Input = -15dBm
Gain Flatness	± 2 dB (TBD)	Input = -15dBm
Input Power for no damage	5dBm max	
Input VSWR	Less than 2 : 1, 1.5:1 typical	
Maximum Output Load Condition for survival	Infinite VSWR	Isolator included
DC Input Voltage	40V	
Quiescent Current	3.0A Typical	
DC Power Consumption	200W MAX @ 100W Pulsed output	TBD 15% Duty
RF Input Signal Format	Pulse Maximum PW : 200us Maximum Duty : 15%	
Over Temperature Protection	Alarm & Shutdown @ 60~70°C Auto restart @ 50~60°C	

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I/O & DC Interface		
Connector	Description	Specification
D-SUB 9pin Male	1. Enable (Active low)	(Enable = 0V, Disable = 5V) pull-up @ 5V with 51kohm
	3. Over Temp. Alarm	Alarm & Shutdown : High(5V) @ case temp. 65 ± 5°C Auto Restart : LOW(0V) @ case temp. 55 ± 5°C
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature ± 5°C
	2, 4, 6, 7 : N.C	
	8, 9 : GND	
3W3P	A1. Vcc	
	A2. GND	
	A3. N.C	

ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	0 ~ +55 °C	@ Baseplate

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	279.3 X 173.4 X 25 mm	
RF Input Connector	SMA Female	
RF Output Connector	N-type Female	
I/O Interface Connector	D-SUB Male	
DC Input Connector	3W3P	
Cooling	Adequate Heat-sink required	

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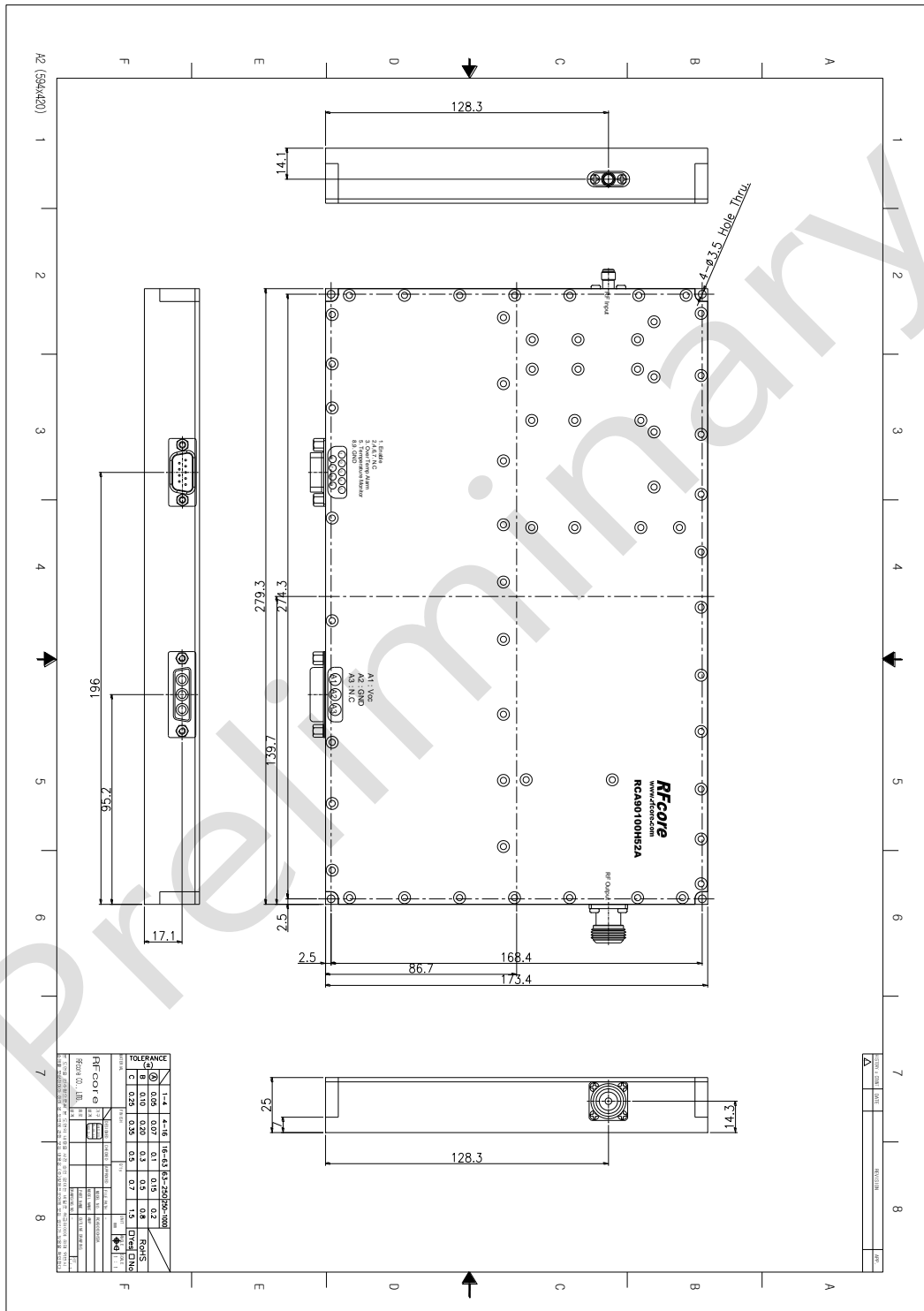
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MECHANICAL DRAWING



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