

Broadband High Power Amplifier

Product Name : RCA18-22H52B

Doc. Name : General Spec.

General Specification for RCA18-22H52B

RoHs
compliant

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Created	Printed	Document Number	Revision	Manufacturer
2011/12/12	2017/2/6		A	RFcore co.,Ltd
File : RCA18-22H52B General Spec.docx				

The Specifications is subject to change before finalization

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

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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	1800 ~ 2200 MHz	
Saturated Output Power	150 W min.	
Small Signal Gain at center frequency	55 ± 1 dB	Input Level = - 15 dBm
Small Signal Gain Flatness	Peak to Peak 5 dB	Input Level = - 15 dBm
Maximum Input Power for no damage	5 dBm max	
Input / Output VSWR	Less than 2 : 1	
Current Consumption	23 A max.	@ Pout = 150 W
DC Input Voltage	28 ± 1 V	
I/O Map	<ol style="list-style-type: none"> 1. N.C 2. Temperature Monitor 3. Enable (Active Low) 4. N.C 5. VSWR Fail Alarm 6. GND 7. Power Monitor 8. N.C 9. N.C 	VT=(0.02*Tc)+1V Tc = Case Temperature± 5°C Pulled up @ 5 V with 10 kohm Alarm : TTL High 3.5 ± 0.3 V @ 52 dBm, Log slope : 0.1V/dB Vpin7 = 3.5-(52-Pout) * 0.1 ± 0.3 V

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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	250 * 170 *28 mm	
RF Input Connector	SMA Female	
RF Output Connector	N- Female	
DC Power Connector	D – SUB 3W3P(A1 : Vcc, A2 : GND, A3 : N.C)	
Control Connector	D – SUB 9Pin Male	
Cooling	Adequate Heat-sink required	

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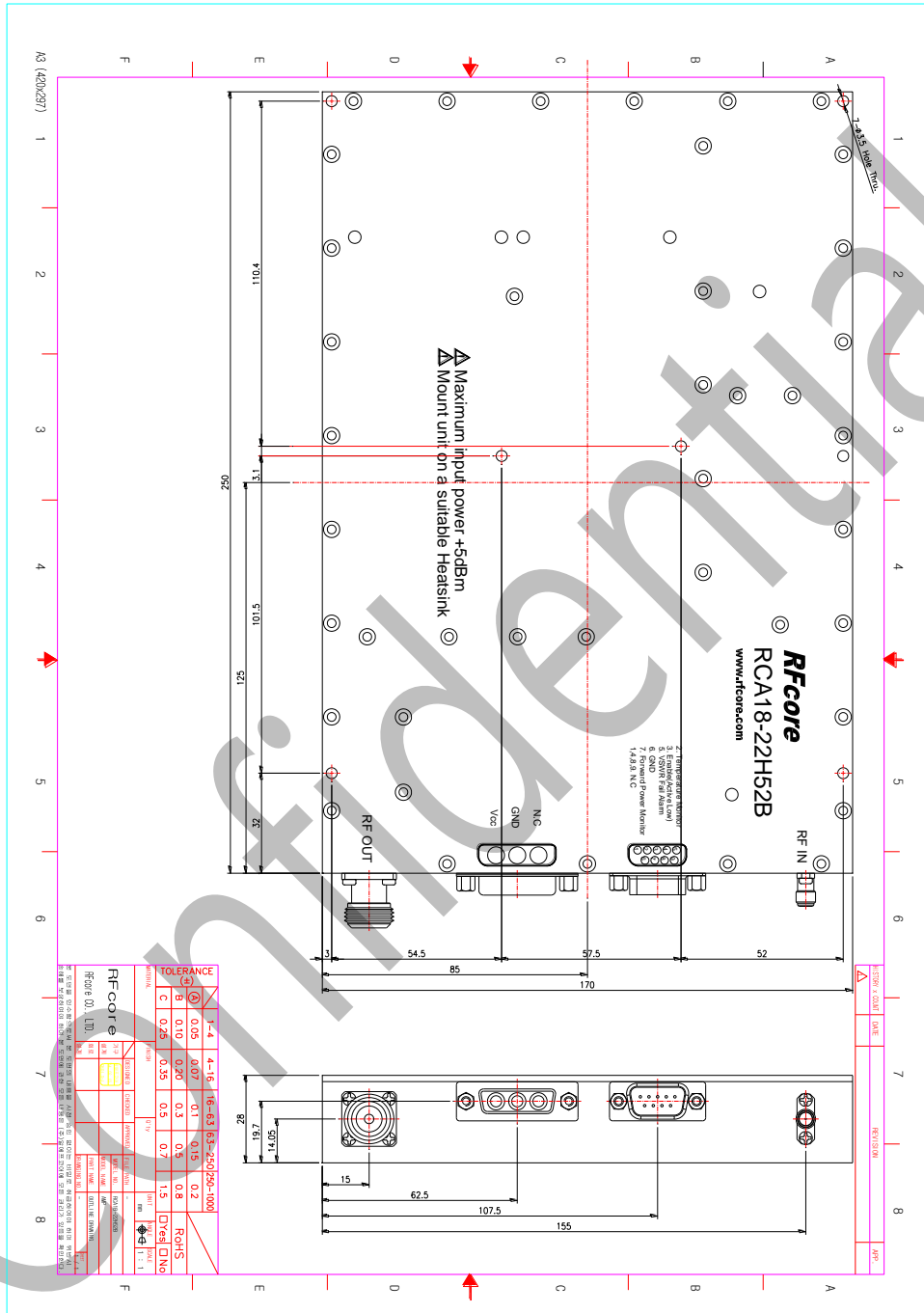
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MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

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