

Broadband High Power Amplifier

Product Name : RCA2427H41A

Doc. Name : Preliminary Short Spec.

**Preliminary Short Specification
for
RCA2427H41A**

RoHs
compliant

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Created	Printed	Document Number	Revision	Manufacturer
2016/7/19	2017/2/6		A	RFcore co.,Ltd
File : RCA2427H41A Short Spec.docx				

The Specifications is subject to change before finalization

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ELECTRICAL SPECIFICATIONS @ 50 Ohms load, 28 Vdc, Tc = 35 °C		
Parameter	Specification	Remark
Frequency Range	2400 ~ 2670 MHz	
Saturated Output Power	41 dBm min.	@ CW
Gain @Center frequency	38 ± 1.0 dB	Input = -15dBm
Gain Flatness	Peak to Peak 2.5 dB	Input = -15dBm, Over Freq. Band
Maximum Input Power no damage	7 dBm max	
Input / Output VSWR	Less than 2.0 : 1	
DC Input Current	2.0 A max	@ Pout = 44dBm
DC Input Voltage	+28 ± 1.0 Vdc	
I/O Map	1. Enable (Active low)	pulled-up@5V with 10KΩ
	2. Forward Power Monitor	4±0.2V @ 41dBm Log slope : 0.1V/dB Vpin2 = 4-(41-Pout)x0.1±0.2V
	3. N.C	
	4. Reflected Power Monitor	Diode type
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature± 5°C
	6,7. Vcc	
	8. GND	
	9. GND	

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

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	110 x 90 x 22 mm	
RF Input / Output Connector	SMA – Female	
DC & Interface Connector	D – Sub 9 Pin Male	
Cooling	Adequate Heat-sink required	

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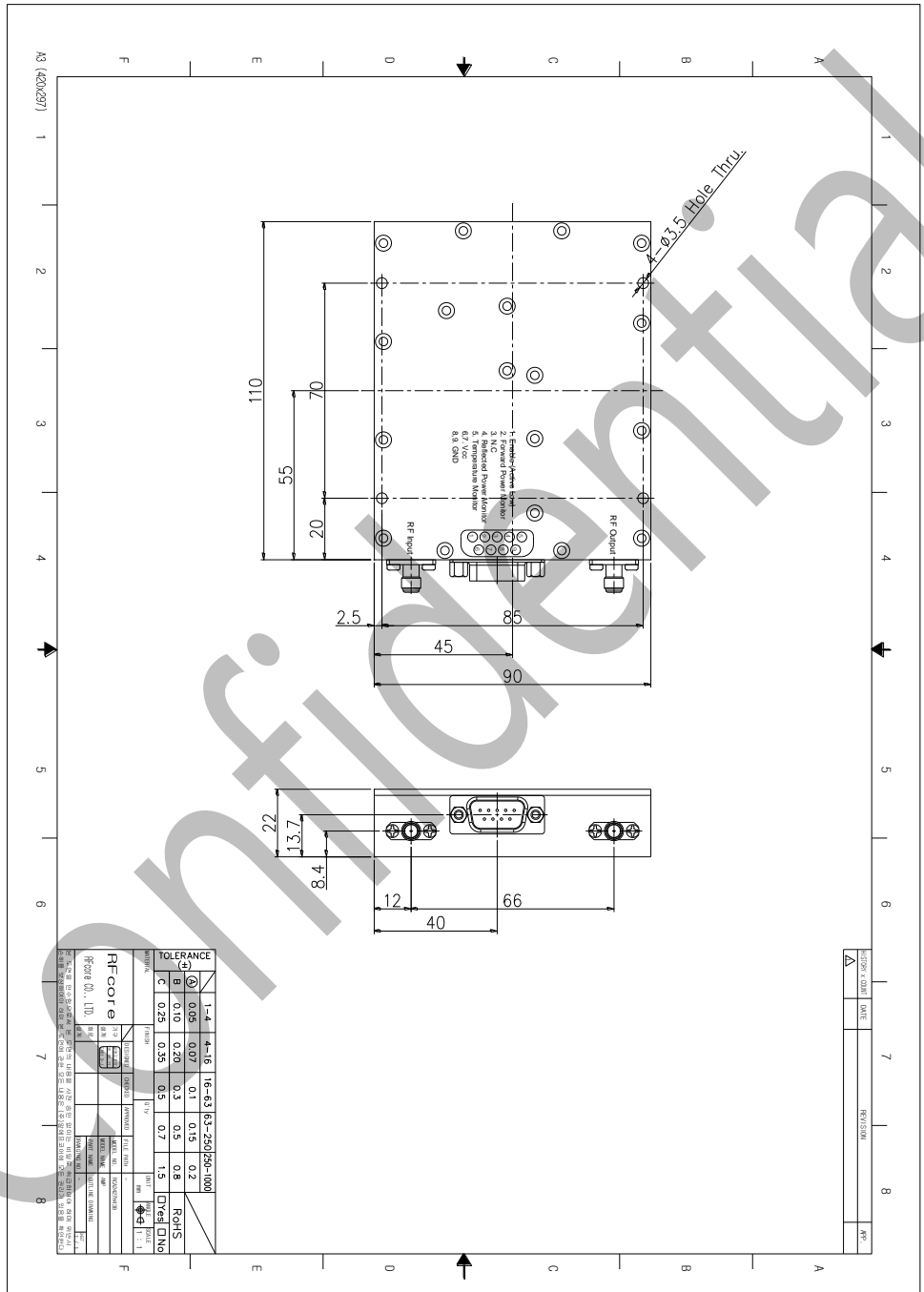
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MECHANICAL DRAWING



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