

Broadband High Power Amplifier

Product Name : RCA2427H44A

Doc. Name : Preliminary Short Spec.

**Preliminary Short Specification
for
RCA2427H44A**

RoHs
compliant

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Created	Printed	Document Number	Revision	Manufacturer
2016/3/29	2017/2/6		C	RFcore co.,Ltd
File : RCA2427H44A Short Spec_revC.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 ~ 2700 MHz	
Saturated Output Power	44 dBm min.	CW
Large signal gain	44 dB min.	Input level = 0dBm
Gain Flatness	Peak to Peak 2.0 dB	Input level = 0dBm
Input / Output VSWR	Less than 1.5 : 1	
Handling VSWR at the output	10 : 1	@VSWR of 10:1 at Max output power and base plate temp. of 75°C
Enable/disable time	10uS	
Maximum Input Power	5dBm	
DC Current Consumption	3.5A max.	@ Pout = 25W
DC Input Voltage	28 ± 1.0Vdc	
I/O Map (Filtered D-sub 9pin Male)	1. Temperature Monitor	$VT = \{0.02(V/°C) * T(°C) + 1.0V\} \pm 0.1V$ T=Case Temperature ± 5°C
	2. Forward Power Monitor	Log slop detector, 4±0.2V @ 44dBm(CW),slope : 0.1V/dB Vpin2 = 4-(44-Pout)x0.1±0.2V
	3. GND	
	4. Reflected Power Monitor	Log slop detector, slope : 0.1V/dB
	5. N.C	
	6,7. Vcc	
	8. GND	
	9. Enable (Active low)	pulled-up@5V with 10KΩ

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 80 °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 9Pin Male	Capacitor value : 1000pF
Cooling	Adequate Heat-sink required	

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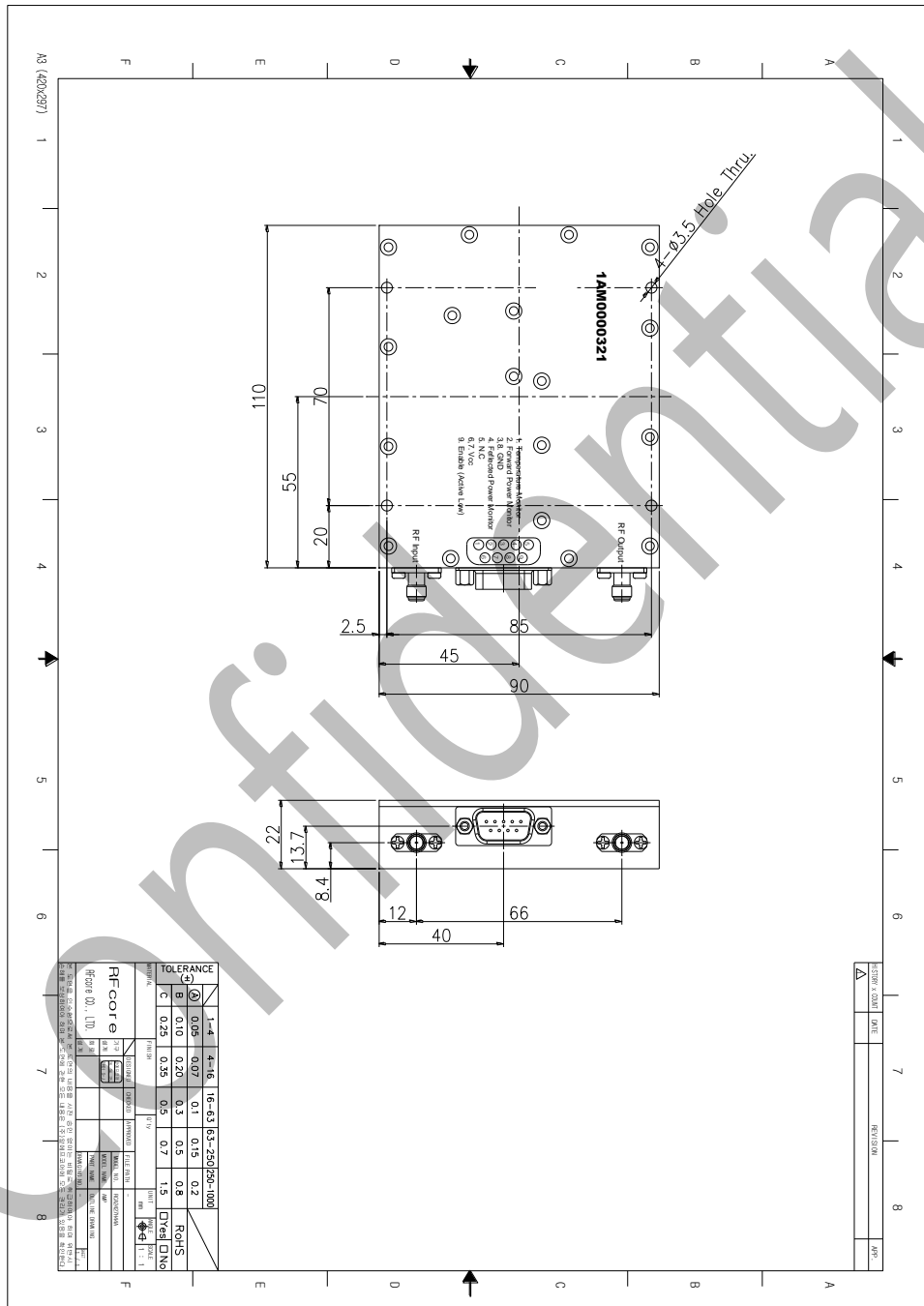
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MECHANICAL DRAWING



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