

# Broadband High Power Amplifier

Product Name : RCA08-10H44CWC, Code Name : B6Y6SD3UI40

Doc. Name : General Spec.

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<p style="text-align: center;"><b>General Specification</b> for <b>RCA08-10H44CWC</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2013/1/31	2017/1/12		C	<b>RFcore co.,Ltd</b>
File : RCA08-10H44CWC General Spec.docx				

*The Specifications is subject to change before finalization*

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<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	800 ~ 1000 MHz	
Saturated Output Power	44 dBm min.	@ CW
Small Signal Gain	40 dB min.	Input Level = - 15 dBm
Small Signal Gain Flatness	Peak to Peak 2.5 dB	Input Level = - 15 dBm
Maximum Input Power for no damage	7 dBm max.	
Input / Output VSWR	Less than 1.5 : 1	
DC Input Voltage	27 ± 1.0 Vdc	
Current Consumption	3.5 A max 2.8 A typ.	
I/O Interface(D-Sub 9Pin Male)	1. Temperature Monitor	VT = 0.02 * Tc + 1.0 (V) , Tc is Case Temperature in degC±5°C
	2. Forward Power Monitor	4.0±0.2V@44dBm, slope : 0.1V/dB Vpin2 = 4.0-(44-Pout)x0.1±0.2V
	3. GND	
	4. Reflected Power Monitor	Diode Detector
	5. VSWR Fail Alarm	Alarm : Reflected power = 38~41dBm @Fcenter
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable (Active Low)	Pulled-up @ 5V with 10kohm

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ +60 °C	
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	135 * 100 * 22 mm	
RF Input / Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

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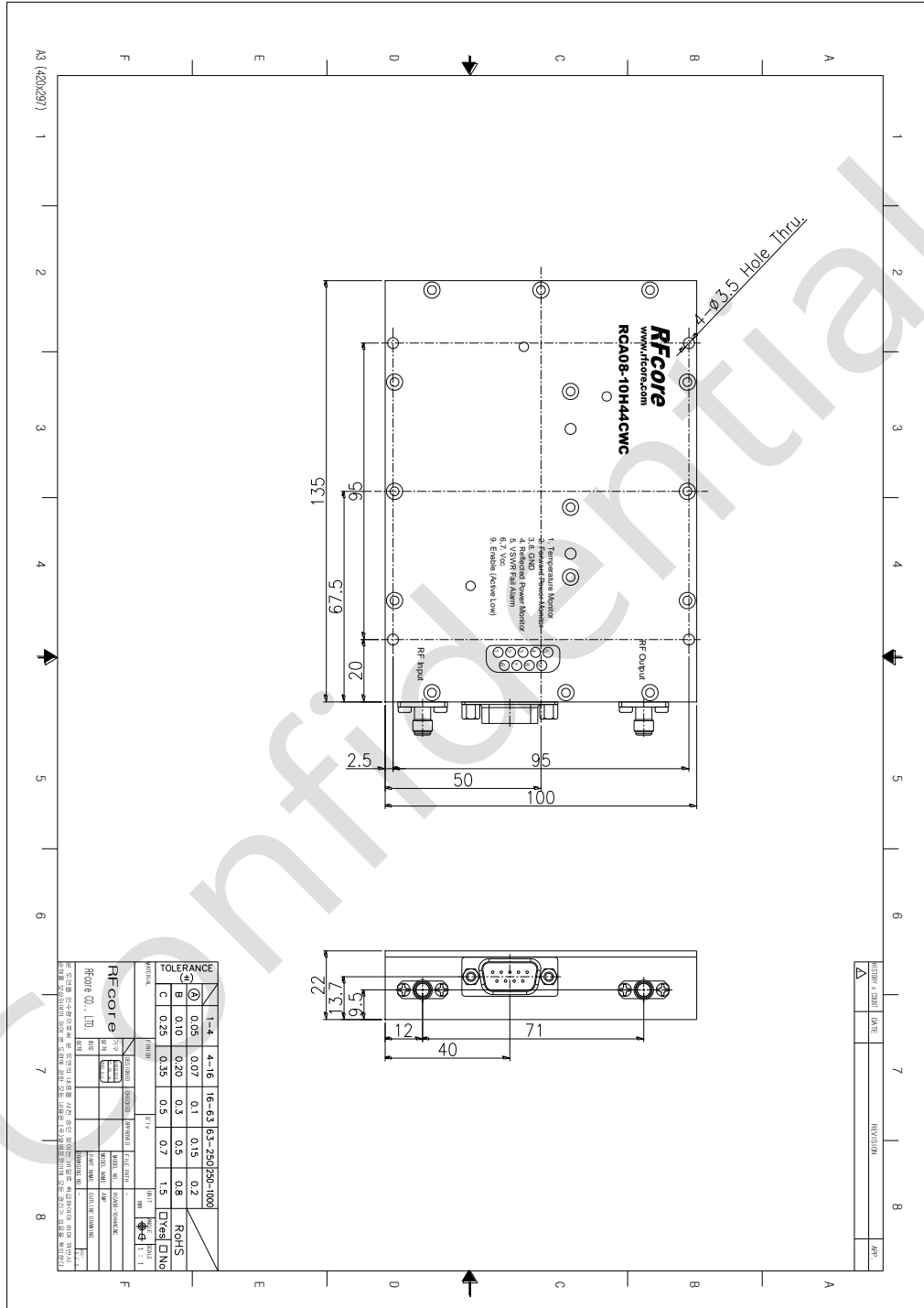
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## MECHANICAL DRAWING



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