

Band-Specific High Power Amplifier

Product Name : RCA2025H47B1, Code Name : B1Y6SD3UI45

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA2025H47B1</p>

1

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Created	Printed	Document Number	Revision	Manufacturer
2014/5/22	2017/2/6		A	Rfcore co.,Ltd
File : RCA2025H47B1 General Spec.docx				

The Specifications is subject to change before finalization

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<http://www.rfcore.com>

Band-Specific High Power Amplifier

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	2000 ~ 2500 MHz	
Saturated Output Power	47 dBm typ. 46 dBm min.	@ CW
Small Signal Gain	47 dB min.	Input level = -15dBm
Small Signal Gain Flatness	Peak to Peak 6.0 dB	Input level = -15dBm
Maximum Input Power for no damage	7 dBm max.	
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	Built-in Isolator
DC Input Voltage	28 ± 1.0 Vdc	
Current Consumption	6.5 A max. 4.5 A typ.	@ Pout = 47dBm
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±0.2@47dBm, slope : 0.1V/dB Vpin2 = 4.0-(47-Pout)x0.1±0.2V
	3. GND	
	4. Reflected Power Monitor	Diode Detector
	5. VSWR Fail Alarm	Alarm : TTL High Reflected power = 40~43dBm (Vpin4=1.4±0.1V) @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 ~ +70 °C	
Storage Temperature	-40 ~ +85 °C	

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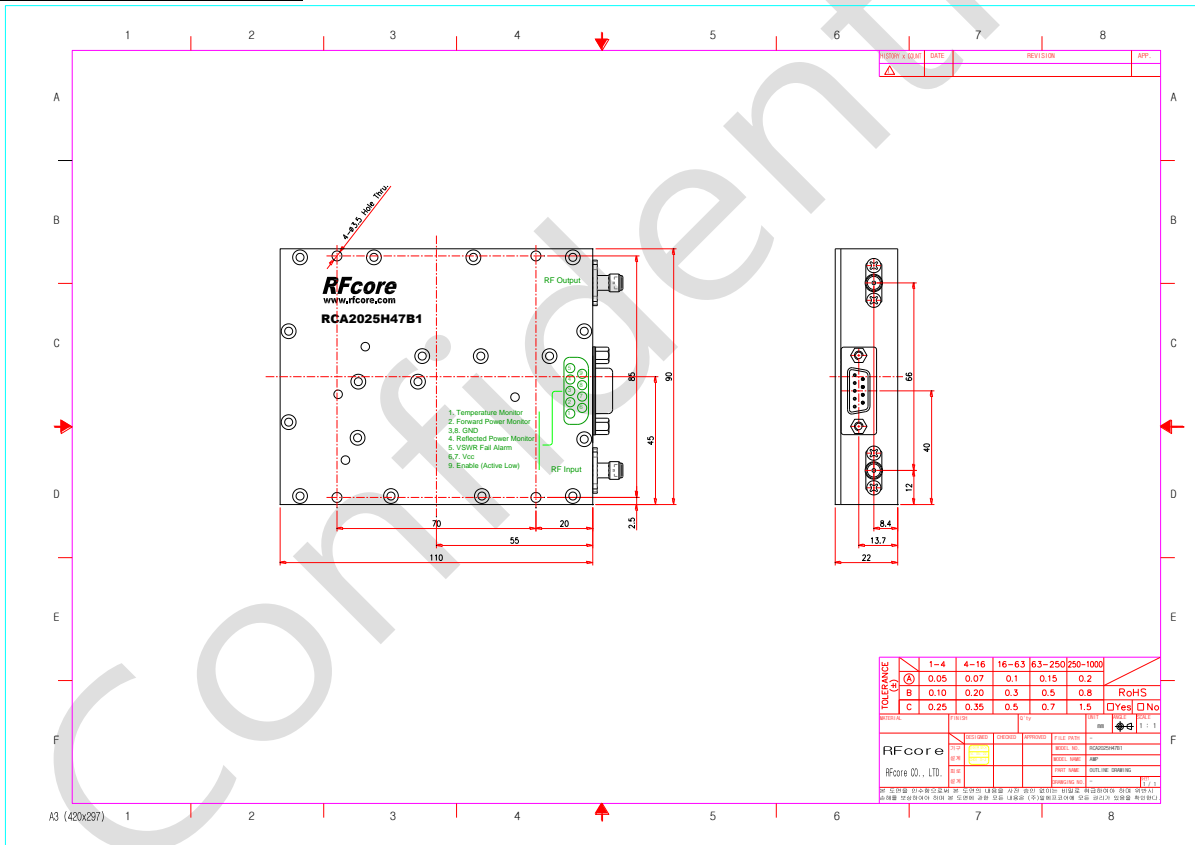
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	110 * 90 * 22 mm	
Weight	Less than 370 g	
Input Connector	SMA Female	
Output Connector	SMA Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

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