

Band-specific High Power Amplifier

Product Name : RCA900H48A , Code Name :

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA900H48A</p>

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2015/10/14	2015/10/14		A	RFcore co.,Ltd
File : RCA900H48A 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	925 ~ 960 MHz	
Saturated Output Power	70W min.	
Gain @ Center Frequency	47 ± 1.0 dB	Input = -15 dBm
Gain Flatness	Peak to Peak 2 dB	Input = -15 dBm
Maximum Input Power for no damage	7 dBm max.	
Input / Output VSWR	Less than 1.5 : 1	
RF Input Signal Format	CW	
Current Consumption	6.5 A max.	@ Pout 70W
DC Input Voltage	+28 ± 1.0 Vdc	

Interface Pin Description		
Connector	Description	Specification
D-Sub 9Pin Male	1. Temperature Monitor	VT= 0.02(V) * Tc(°C) + 1.0(V), Tc = Case Temperature± 5°C
	2. Forward Power Monitor	4 ± 0.1V @ CW 48.5dBm, slope : 0.1V/dB Vpin2 = 4-(48.5-Pout)x0.1±0.1V
	3. GND	
	4. Reflected Power Monitor	Vpin4 is Diode type Detector. Diode has non-linear log slope characteristic. Note : Alarm Status is not latched. Alarm is cleared once Vpin4 go down 1.4 ± 0.1Vdc
	5. VSWR Fail Alarm	Alarm : High(5V) @ Reflected power = 15~ 30W @ Fcenter
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable (Active low)	pulled-up@5V with 10KΩ

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

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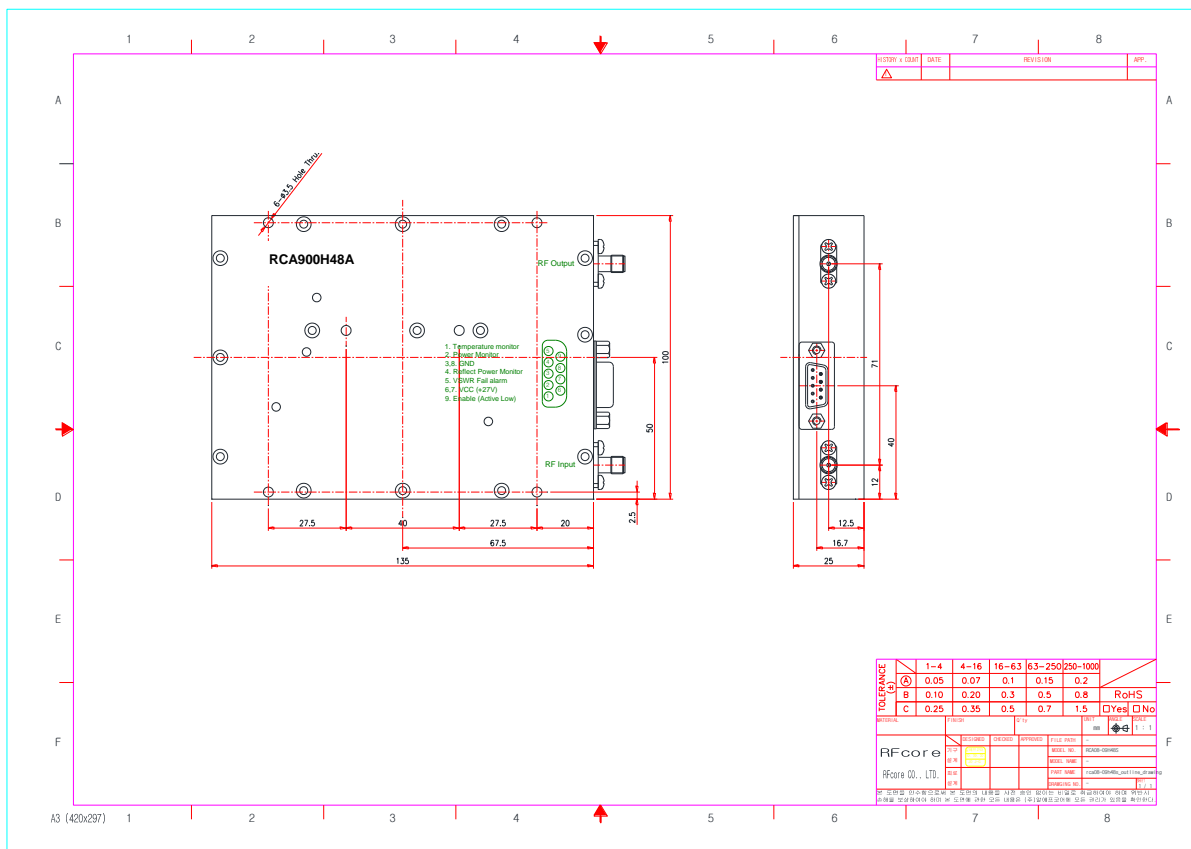
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	135 * 100 *25 mm	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
DC Power & Control Connector	D – SUB 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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