

Broadband High Power Amplifier

Product Name : RCA2560H47D1

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA2560H47D1</p>

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Created	Printed	Document Number	Revision	Manufacturer
2018/10/5	2018/12/3		A	RFcoreco.,Ltd
File : RCA2560H47D1 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	2500 ~ 6000 MHz	
Saturated Output Power	50 W min.	@ CW, 50 Ohm load condition
Large Signal Gain	42 dB min	Input Level = 0 dBm
Small Signal Gain	48 dB min	Input Level = -15 dBm
Large Signal Gain Flatness	Peak to Peak 6 dB	Input Level = 0 dBm
Small Signal Gain Flatness	Peak to Peak 6 dB	Input Level = -15 dBm
Maximum Input Power for no Damage on DC on	5 dBm max	
Input VSWR	Less than 2 : 1	
Enable/Disable Switching Time	10 usec max.	
DC Input Voltage	+28 ± 1.0 Vdc	
Current Consumption	13A max. 11A typ.	@ Pout = 50 W CW
I/O Interface(D-Sub 9pin Male)	1. Enable (Active Low)	
	2. Forward Power Detector	
	3. N.C	
	4. Reflected Power Detector	
	5. Temperature Monitor	VT=10(mV)*Tc(°C)+500(mV) Tc=Case Temperature± 5°C
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 70 °C	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ 85 °C	

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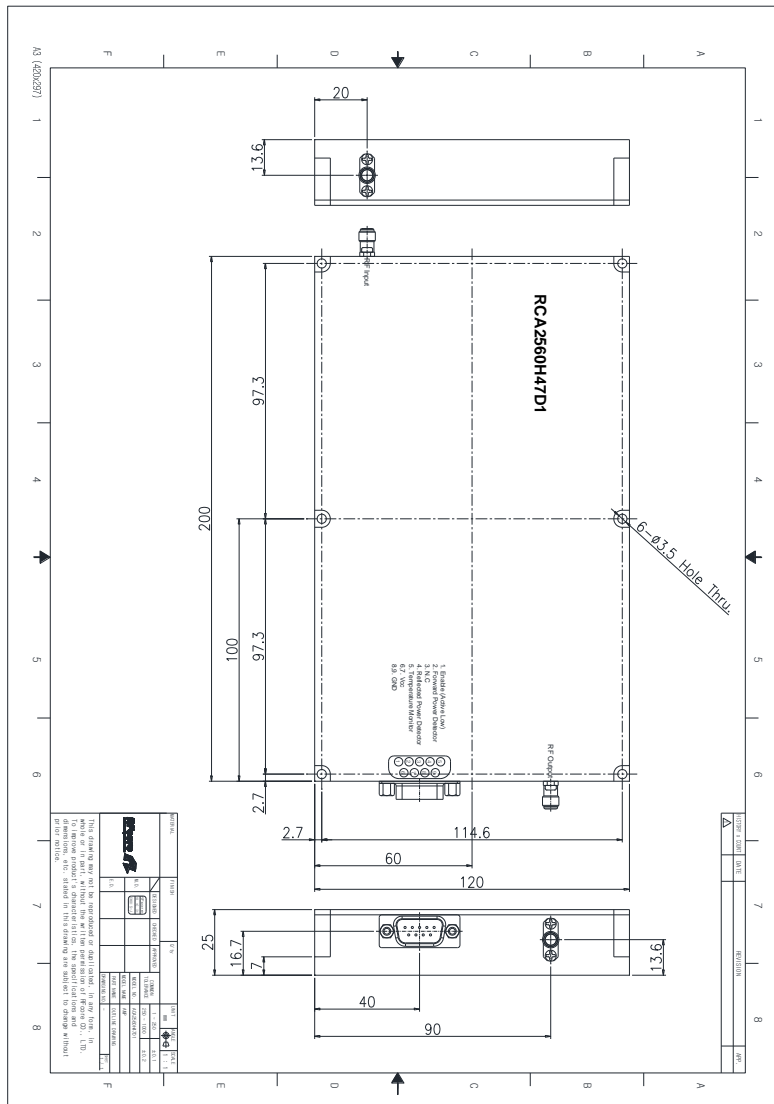
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	200 x 120 x 25 mm ³	w/o connectors
Weight	Less than 1100g	
RF Input Connector	SMA – Female	
RF Output Connector	SMA – Female	
DC / Interface Connector	D – Sub 9 Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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