

Broadband High Power Amplifier

Product Name : RCA1500H50D

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA1500H50D</p>
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1

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Created	Printed	Document Number	Revision	Manufacturer
2016/11/22	2017/1/12		C	RFcore co.,Ltd
File : RCA1500H50D General Spec.docx				

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

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<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 60 °C
Parameter	Specification	Remark
Frequency Range	1500 ~ 1600 MHz	
Saturated Output Power	100W min.	@ CW, 50 ohms load condition
Small Signal Gain	53 dB min	@ Pin = -15 dBm
Large Signal Gain	47 dB min	@ Pin = 0 dBm
Gain Flatness	Peak to Peak 2.0 dB	@ Pin = -15 dBm
Input Power for no damage	10 dBm	@ CW, 50 ohms load condition
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	Built-in isolator
On/Off Switching Time	2 usec typ. 5 usec max.	
DC Input Voltage	28 ± 1.0 Vdc	
Current Consumption	12 A max. 10 A typ.	@ Pout = 100W CW, 50 ohms load
RF Input Signal Format	CW	

Interface Pin Description

Connector	Description	Specification
I/O Interface(7W2)	1. Enable (Active low)	Pulled-up @ 5V with 10kohm
	2. Forward Power Monitor	Logarithmic Detector(0.05V/dB)
	3. N.C	
	4. Reflected Power Monitor	Logarithmic Detector(0.05V/dB)
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature ± 5°C
	A1. VCC	
A2. GND		

2

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ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Case Temperature	-40 ~ +75 °C	At a hottest point of the mechanical case of amplifier module
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	170 * 100 * 25 mm	w/o connectors
Weight	Less than 1100 g	
RF Input Connector	SMA Female	
RF Output Connector	SMA Female	
DC & I/O Interface Connector	7W2P	
Cooling	Adequate Heat-sink required	

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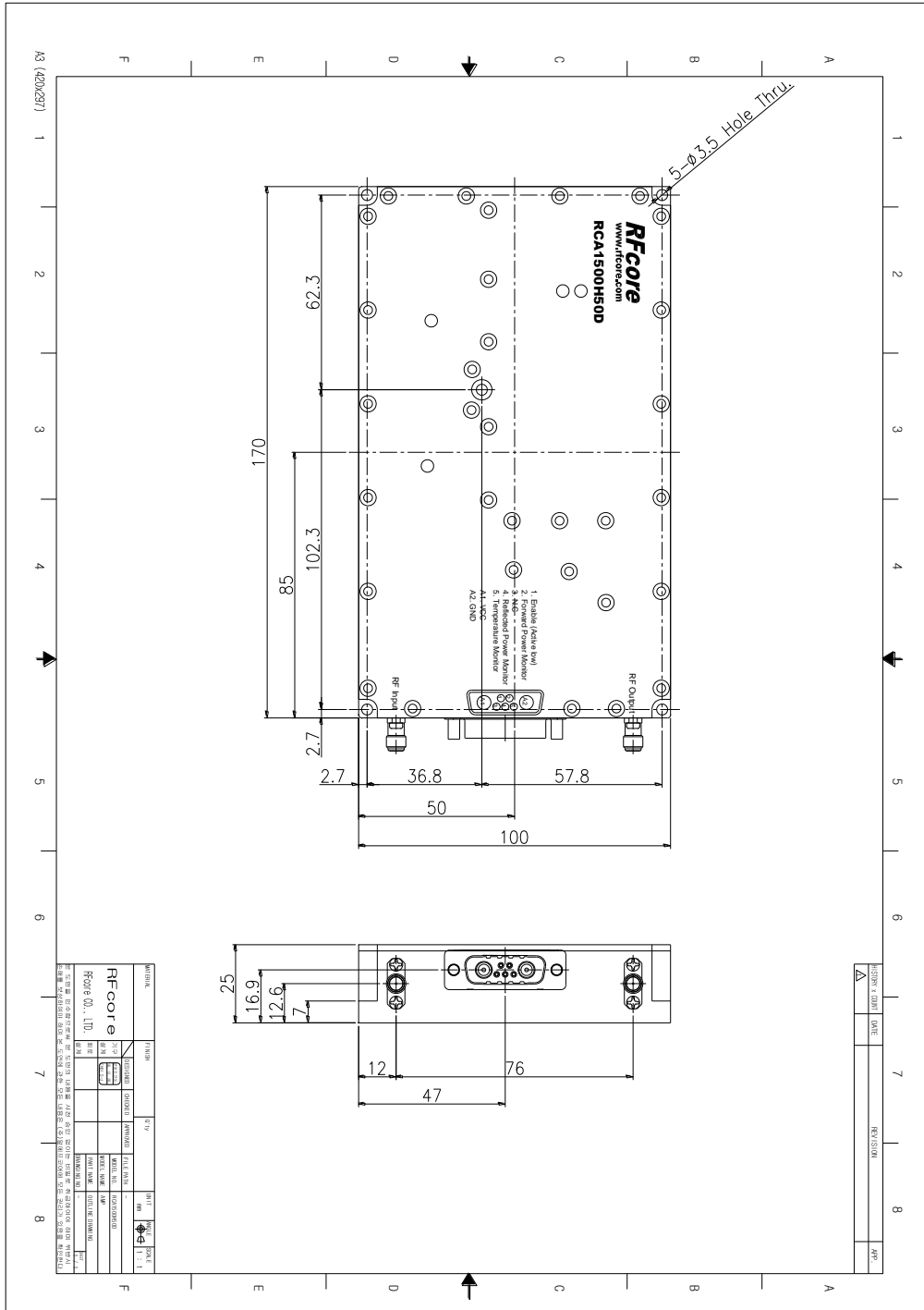
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MECHANICAL DRAWING



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