

Broadband High Power Amplifier

Product Name : RCA0727H50D1

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA0727H50D1</p>

1

1

RESTRICTION ON USE, DUPLICATION, OR DISCLOSURE OF PROPRIETARY INFORMATION

This document contains proprietary information, which is the sole property of RFcore co., LTD.

The document is submitted to the recipient for his use only.

By receiving this document the recipient undertakes not to duplicate the documents or to disclose in part of, or the who any of the information contained herein to any third party without receiving beforehand, written permission from the submitting company.

Created	Printed	Document Number	Revision	Manufacturer
2016/11/29	2017/1/17		A	RFcore co.,Ltd
File : RCA0727H50D1 Short Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

<http://www.rfcore.com>

Broadband High Power Amplifier

Product Name : RCA0727H50D1

Doc. Name : Preliminary Short Spec.

<p style="text-align: center;">Preliminary Short Specification for RCA0727H50D1</p>

2

<p style="text-align: center;">RESTRICTION ON USE, DUPLICATION, OR DISCLOSURE OF PROPRIETARY INFORMATION</p> <p>This document contains proprietary information, which is the sole property of RFcore co., LTD. The document is submitted to the recipient for his use only. By receiving this document the recipient undertakes not to duplicate the documents or to disclose in part of, or the whole of, any of the information contained herein to any third party without receiving beforehand, written permission from the submitting company.</p>
--

Created	Printed	Document Number	Revision	Manufacturer
2016/11/29	2017/1/17		A	RFcore co.,Ltd
File : RCA0727H50D1 Short Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

<http://www.rfcore.com>

Broadband High Power Amplifier

Product Name : RCA0727H50D1

Doc. Name : Preliminary Short Spec.

ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	700 ~ 2700 MHz	
Saturated Output Power @ 28 VDC	80W min.	@ CW, 50 ohms load
Saturated Output Power @ 36 VDC	100W min.	@ CW, 50 ohms load
Small Signal Gain	50 dB min	Input = -15 dBm
Large Signal Gain	47 dB min	Input = 0 dBm
Gain Flatness	Peak to Peak 6 dB	Input = 0 dBm
Maximum Input Power for no damage	10 dBm	
Input VSWR	Less than 2 : 1	
Maximum load VSWR for amplifier working	3.5 : 1	Works with degraded performance.
On/Off Switching Time	1 usec typ. 5 usec max.	
DC Input Voltage	28 to 36 Vdc	
Current Consumption @ 28 VDC	11 A max. 9 A typ.	@ Pout = 80W CW, 50 ohms load
Current Consumption @ 36 VDC	11 A max. 9 A typ.	@ Pout = 100W CW, 50 ohms load
RF Input Signal Format	CW	

3

Interface Pin Description		
Connector	Description	Specification
I/O Interface(7W2)	1. Enable (Active low)	(Enable = 0V, Disable = 5V) pull-up @ 5V with 10k ohm
	2. Forward Power Monitor	Logarithmic Detector(0.05V/dB)
	3. VSWR Fail Alarm	TTL HIGH(5V) @ high VSWR VSWR alarm will be activated at a certain ratio between 4 and infinite VSWR. The alarm is not latched signal.
	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	

Created	Printed	Document Number	Revision	Manufacturer
2016/11/29	2017/1/17		A	RFcore co.,Ltd
File : RCA0727H50D1 Short Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

http://www.rfcore.com

Broadband High Power Amplifier

Product Name : RCA0727H50D1

Doc. Name : Preliminary Short Spec.

ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	235 * 87 * 27 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	

Created	Printed	Document Number	Revision	Manufacturer
2016/11/29	2017/1/17		A	RFcore co.,Ltd
File : RCA0727H50D1 Short Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

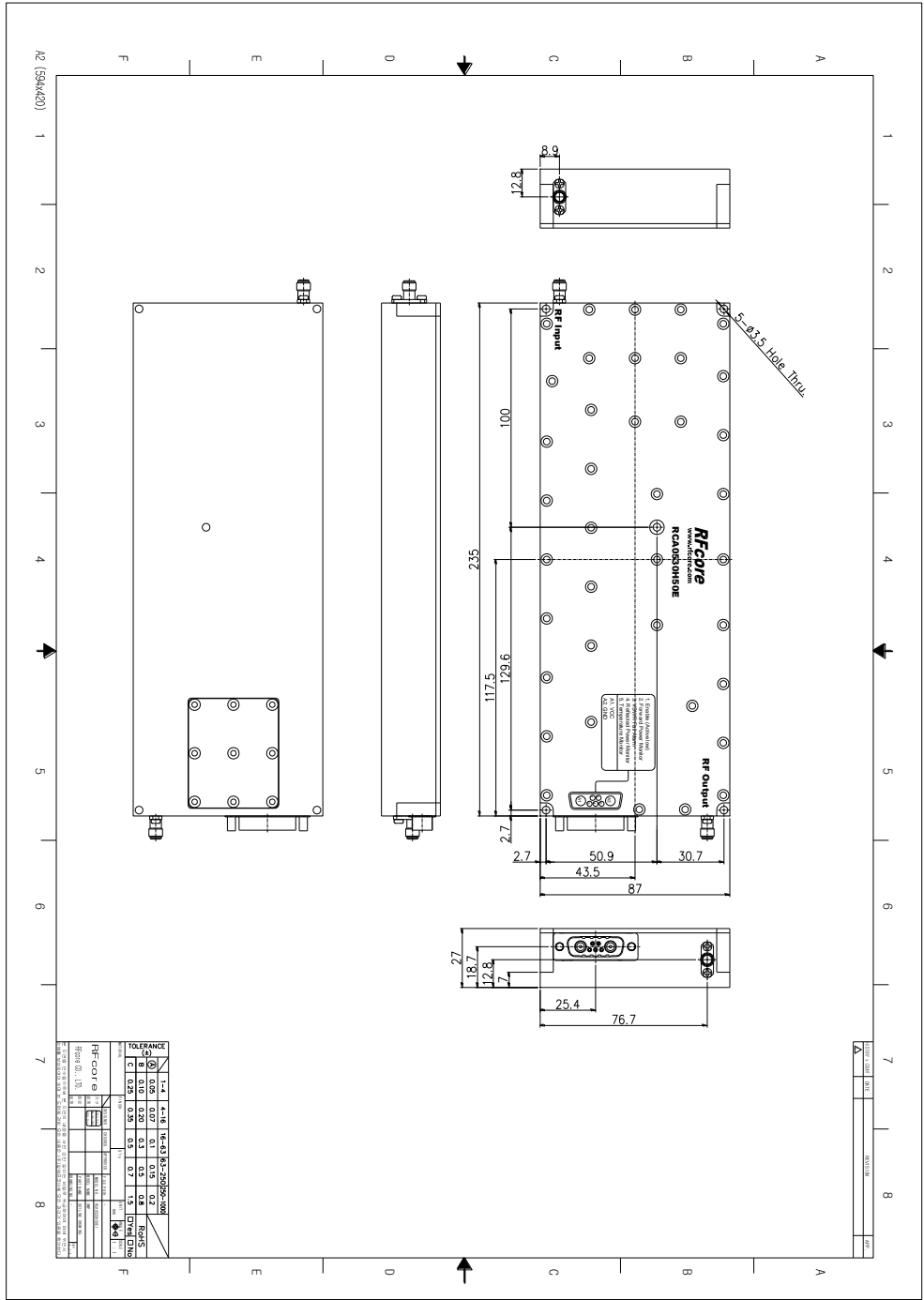
<http://www.rfcore.com>

Broadband High Power Amplifier

Product Name : RCA0727H50D1

Doc. Name : Preliminary Short Spec.

MECHANICAL DRAWING



DRAWING REFERNECE: This is subject to change without notice.

Created	Printed	Document Number	Revision	Manufacturer
2016/11/29	2017/1/17		A	RFcore co.,Ltd
File : RCA0727H50D1 Short Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

http://www.rfcore.com