

# Broadband High Power Amplifier

Product Name : RCA0525H44E, Code Name :

Doc. Name : General Spec.

---

<p style="text-align: center;"><b>General Specification</b> for <b>RCA0525H44E</b></p>
------------------------------------------------------------------------------------------------

1

<p style="text-align: center;"><b>RESTRICTION ON USE, DUPLICATION, OR DISCLOSURE OF PROPRIETARY INFORMATION</b></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 before hand, written permission from the submitting company.

Created	Printed	Document Number	Revision	Manufacturer
2012/7/17	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA0525H44E General 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 : RCA0525H44E, Code Name :

Doc. Name : General Spec.

ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc ≅ 35 °C
Parameter	Specification	Remark
Frequency Range	500 ~ 2500 MHz	
Saturated Output Power	44 dBm min.	@ CW
Gain	48 dB min.	Input Level = - 15 dBm
Small Signal Gain Flatness	Peak to Peak 6 dB	Input Level = - 15 dBm
Maximum Input Power for no damage	5 dBm	
Input VSWR	Less than 2.0 : 1	
DC Input Voltage	27 ± 1 Vdc	
Current Consumption	3.5 A max.	@ 25W Pout

Interface Pin Description		
Connector	Description	Specification
I/O Interface(D-Sub 9Pin Male)	1. Enable(Active Low)	Pulled-up @ 5V with 10kohm
	2. Forward Power Monitor	log scale detector.
	3. Fast Back-off	External Voltage ≈ 2.3 V, (back - off by 10~17dB), 0V(normal gain)
	4. Reflected Power Monitor	log scale detector.
	5. Temperature Monitor	VT = 0.01*Tc + 0.5 (V)
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ +70 °C	
Storage Temperature	-40 ~ +85 °C	

Created	Printed	Document Number	Revision	Manufacturer
2012/7/17	2017/1/12		B	RFcore co.,Ltd
File : RCA0525H44E General Spec.docx				

The Specifications is subject to change before finalization

# Broadband High Power Amplifier

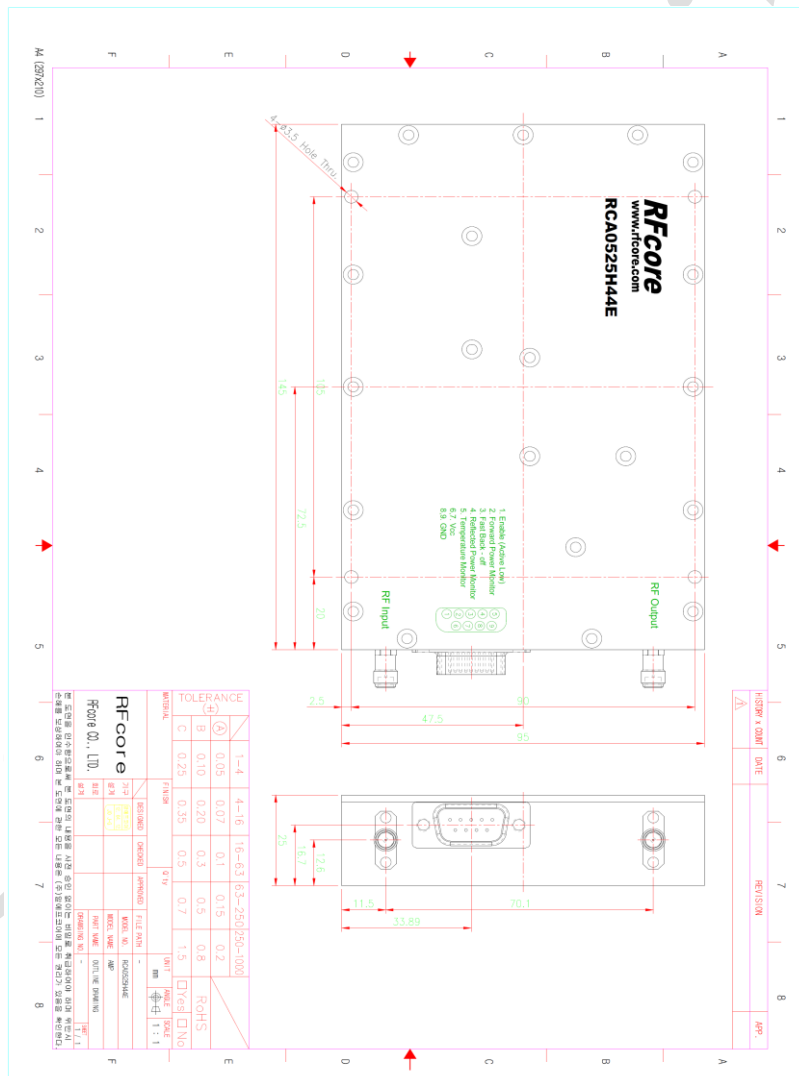
Product Name : RCA0525H44E, Code Name :

Doc. Name : General Spec.

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	95 * 145 * 25 mm	
Input / Output Connector	SMA Female	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

## MECHANICAL DRAWING



Created	Printed	Document Number	Revision	Manufacturer
2012/7/17	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA0525H44E General Spec.docx				

The Specifications is subject to change before finalization

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

Email: sales@rfcore.com

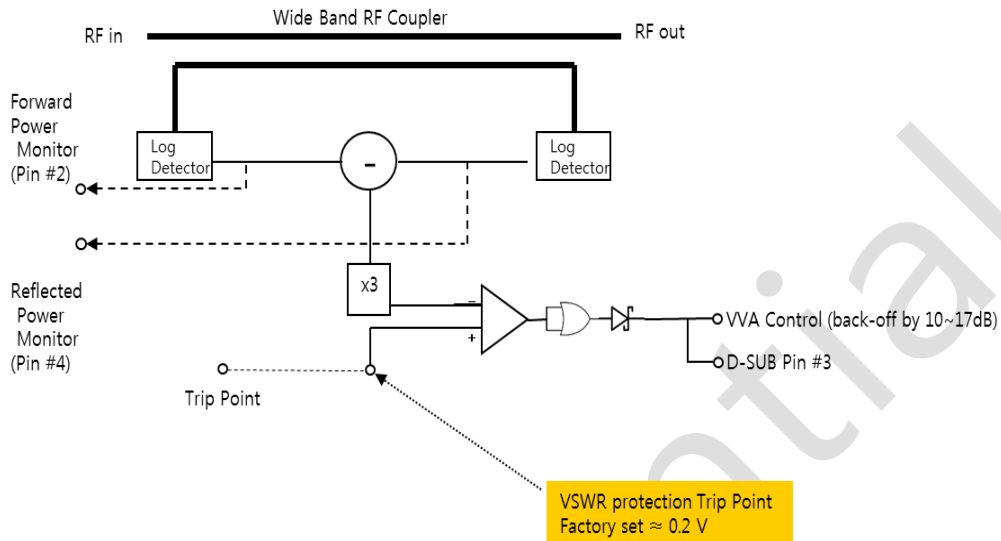
http://www.rfcore.com

# Broadband High Power Amplifier

Product Name : RCA0525H44E, Code Name :

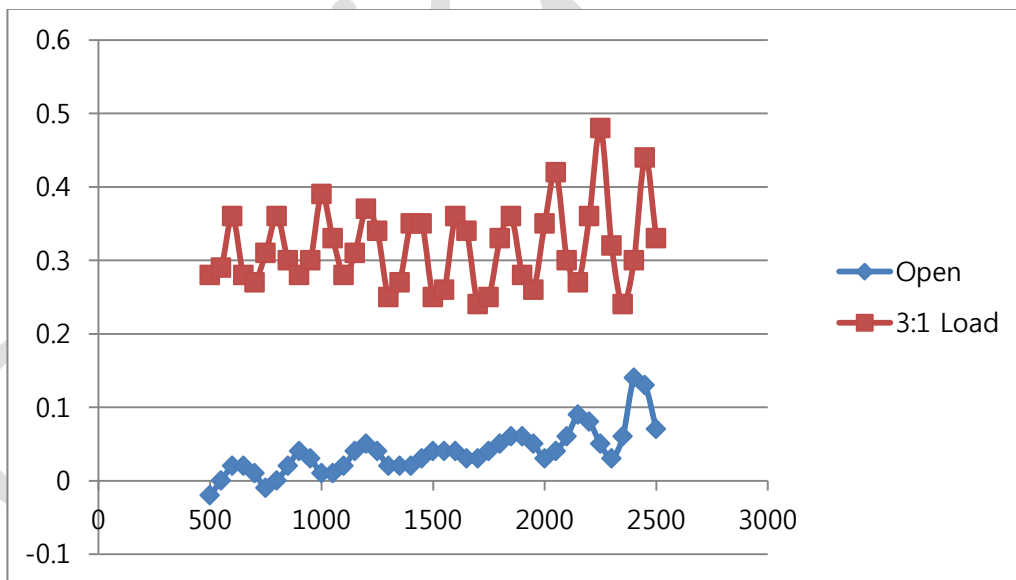
Doc. Name : General Spec.

## - VSWR Protection Behavior



## - Load Test (open & 3:1)

4



Created	Printed	Document Number	Revision	Manufacturer
2012/7/17	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA0525H44E General 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