

Broadband High Power Amplifier

Product Name : RCA08-10H46CWB, Code Name : B6Y6SD3UI40

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA08-10H46CWB</p>

1

<p style="text-align: center;">RESTRICTION ON USE, DUPLICATION, OR DISCLOSURE OF PROPRIETARY INFORMATION</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
2012/4/4	2017/1/12		C	RFcore co.,Ltd
File : RCA08-10H46CWB 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 : RCA08-10H46CWB, Code Name : B6Y6SD3UI40

Doc. Name : General Spec.

ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	800 ~ 1000 MHz	
Saturated Output Power	46 dBm min.	@ CW
Nominal Gain	40 ± 1 dB	
Gain Flatness	Peak to Peak 2.5 dB	Over Freq. band
Input VSWR	1.5 : 1 max.	
Output VSWR	1.5 : 1 max.	
DC Input Voltage	27 ± 1.0 V	
Current Consumption	5.5 A max.	@ Psat

Interface Pin Description		
Connector	Description	Specification
I/O Interface(D-Sub 9Pin Male)	1. Temperature Monitor	VT = 0.02*T + 1.0 (V) T is Case Temperature in degC ± 5°C
	2. Power Monitor	4 ± 0.1@CW 46 dBm Vpin2 = 4-(46-Pout)*LSP±0.1 (V) LSP(log slope): 0.1V/dB
	3. GND	
	4. Reflected Power Monitor	Vpin4 = 1.4 ± 0.1 V when Reflected Power = 40 ~ 43dBm
	5. VSWR Fail Alarm	Vpin5 = High(5V) When Vpin4>1.4 ± 0.1 *Alarm status is not latched. Alarm cleared once Reflectd Power Monitor voltage go down 1.4 ± 0.1
	6. Vcc	
	7. Vcc	
	8. GND	
	9. Enable(Active Low)	Pulled-up @ 5V with 10kohm

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

Created	Printed	Document Number	Revision	Manufacturer
2012/4/4	2017/1/12		C	RFcore co.,Ltd
File : RCA08-10H46CWB 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

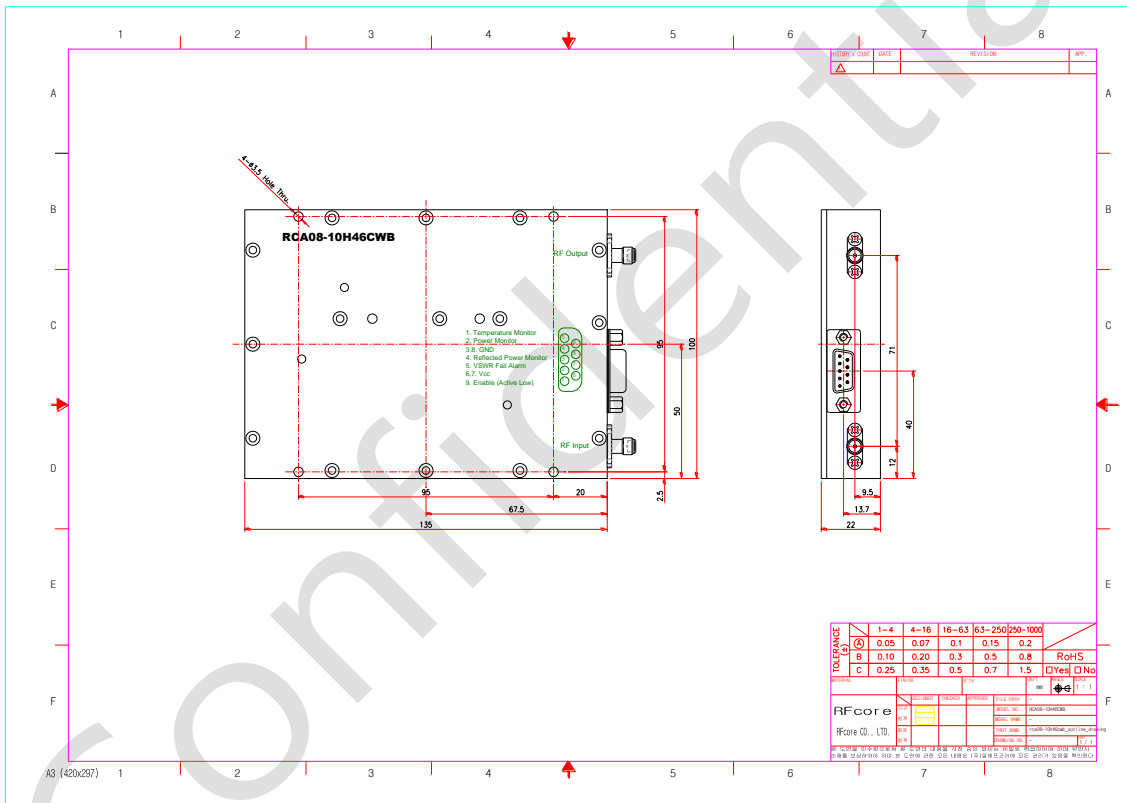
Product Name : RCA08-10H46CWB, Code Name : B6Y6SD3UI40

Doc. Name : General Spec.

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	135 * 100 * 22 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
2012/4/4	2017/1/12		C	RFcore co.,Ltd
File : RCA08-10H46CWB 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