

# Band-Specific High Power Amplifier

Product Name : RCA1800H42CW

Doc. Name : General Spec.

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<p><b>General Specification</b> for <b>RCA1800H42CW</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2010/2/19	2017/2/6		A	<b>RFcore co.,Ltd</b>
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*The Specifications is subject to change before finalization*

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

Email: sales@rfcore.com

<http://www.rfcore.com>

# Band-Specific High Power Amplifier

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## ELECTRICAL SPECIFICATIONS

Parameter	Specification	Remark
Frequency Range	1805 ~ 1880 MHz	
Saturated Output Power	15 W(42dBm) min	Operating Temp. , CW
Gain	38 ± 1.0 dB	Input level = -15dBm, Operating Temp.
Gain Flatness	Peak to Peak 2.0 dB	Input level = -15dBm, Operating Temp. , Over Freq. band
Gain Stability	± 1.0 dB	Operating Temp.
Input / Output VSWR	Less than 1.5 : 1	
Maximum Input Power	7 dBm	
DC Current Consumption	2.5 A maximum	@ Pout = 15W, Operating Temp.
DC Input Voltage	27 ± 1.0Vdc	
I/O Map	1. Enable(Active Low)	(Enable = 0V, Disable = 5V) pulled-up @ 5V with 10k ohm
	2. Power Monitor	Log slop detector Vpin2=4 ±0.1V @ CW 42dBm , slope:0.1V/dB Vpin2= 4 -(42-Pout)*0.1±0.1V
	3. N.C	
	4. Reflect Power Monitor	Linear slop detector : diode type Vpin4=1 ±0.1V@ Reflected Power = 37.5 ± 1.5dBm
	5. VSWR Fail Alarm	VSWR Alarm when Reflected Power > 37.5 ± 1.5dBm
	6,7 Vcc	
	8,9 GND	

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## ENVIRONMENTAL SPECIFICATIONS

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

## MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	95 x 80 x 22 mm	
RF Input / Output Connector	SMA – Female	
Interface Connector	D-Sub 9Pin Male	

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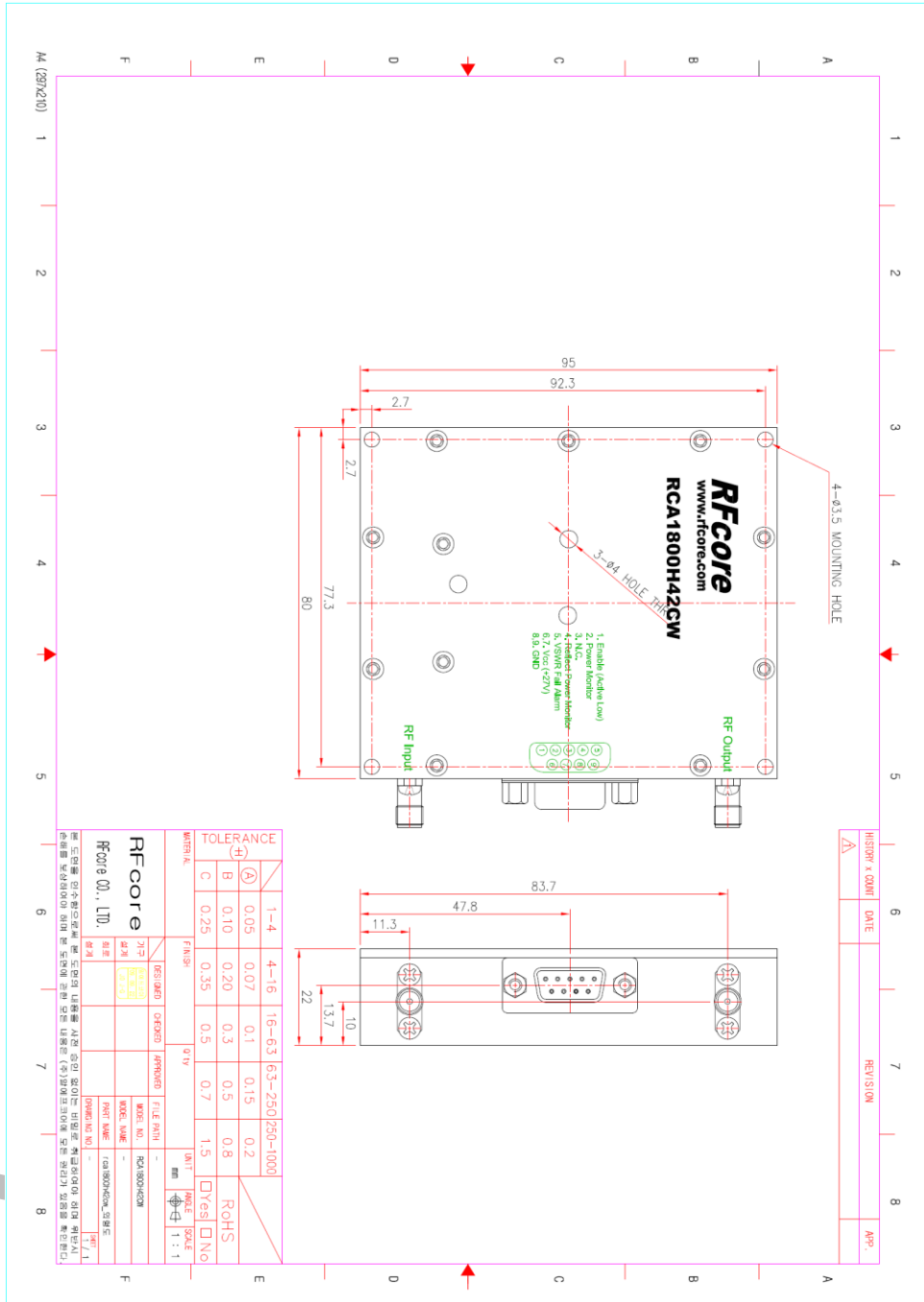
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## MECHANICAL DRAWING



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