

# Specification of 2100-2200MHz 15W RFcore amplifier

Model name : RCA2100H42CW

Item	Specification	Remark
Frequency Range	2100 ~ 2200 MHz	
Power Output	42 dBm (CW) Min.	
Gain	$38 \pm 1$ dB	T.B.D.
Gain Flatness	Peak to Peak 2dB	Over Freq Band
Gain Stability	$\pm 1.0$ dB	Over Temp
In/Out VSWR	Less than 1.5:1	
DC Current	2.5 A max	
SIZE (D*W*H mm)	95 * 85 * 22 mm	
In/Out Connector	In/Out : SMA Female	
Operation Temperature	-20°C ~ +60°C	
I/O Map (D-Sub 9Pin M) (Optionsl)	1. Enable ( Active low)	
	2. Power Monitor : Log Slope detector Vpin2=4 $\pm$ 0.1 @ CW 42dBm , slope:0.1V/dB <b>Vpin2= 4 -(42-Pout)*0.1<math>\pm</math>0.1V</b>	
	3.N.C.	
	4. Reflect Power Monitor : Linear Slope Detector Reflected Power = 37.5 $\pm$ 1.5 dBm	
	5. VSWR Fail alarm Vpin5 = High (5V) When Vpin4 > 1.0 $\pm$ 0.1 Note: Alarm Status is not Latched. Alarm Cleared once Reflected power monitor voltage go down 1.0 $\pm$ 0.1	VSWR Alarm when Reflected Power > 37.5 dBm
	6.7. Vcc ( 27V)	
8.9. GND		

# Mechanical Drawing

WXDXH : 95 x 85 x 22mm

Model

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