

## RCA900H44CWB

Item	Specification	Remark
Frequency Range	925 ~ 960 MHz	
Power Output (Psat)	44 dBm (CW) Min.	Cw means continuous wave single tone sine-wave within specified band.
Gain	$40 \pm 1$ dB	small signal gain
Gain Flatness	Peak to Peak 2dB	Over Freq Band
Gain Stability	$\pm 1.0$ dB	Over Temp, small signal gain
In/Out VSWR	Less than 1.5:1	
DC Current	3A max	2.5 A Typ
SIZE (W *D*H mm)	135 * 100 * 22 mm	
In/Out Connector	In/Out : SMA Female	
Operation Temperature	$-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$	
I/O Map (D-Sub 9Pin Male) (Optional)	1. Temperature monitor $V_T = 0.02(V) * T(^{\circ}\text{C}) + 1(V)$ , $T = \text{Case Temperature} \pm 5^{\circ}\text{C}$	
	2. Power Monitor : Log Slope detector $V_{pin2} = 4 \pm 0.1$ @ CW 44dBm , slope:0.1V/dB $V_{pin2} = 4 - (44 - P_{out}) * 0.1 \pm 0.1V$	
	4. Reflect Power Monitor : Linear Slope Detector $V_{pin4} = 1.4 \pm 0.1 V$ when Reflected Power = $39.5 \pm 1.5$ dBm	
	5. VSWR Fail alarm $V_{pin5} = \text{High (5V)}$ When $V_{pin4} > 1.4 \pm 0.1$ Note: Alarm Status is not Latched. Alarm Cleared once Reflected power monitor voltage go down $1.4 \pm 0.1$	
	6. Vcc +27Vdc	
	7. GND	
	8. N.C	
	9. Enable ( Active low)	pulled-up @ 5V with 10 Kohm