

Specification for 800-1000MHz 40W Amplifier

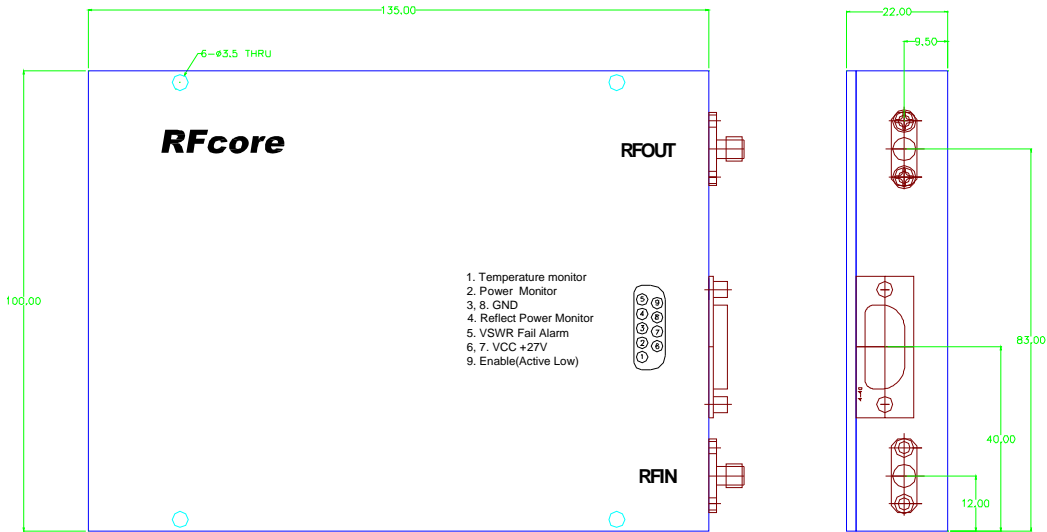
Model Name : RCA08-10H46CWB

Parameter	Specification	Remark
Frequency Range	800 ~ 1000 MHz	
Power Output	46 dBm (CW) Min.	Psat
Gain	40 ± 1 dB	
Gain Flatness	Peak to Peak 2.5dB	Over Freq Band
In/Out VSWR	Less than 1.5:1	
DC Current	5.5A Max(Psat)	
SIZE (W*D*H mm)	135 * 100 * 22 mm	
In/Out Connector	In/Out : SMA Female	
Operation Temperature	-20°C ~ +60°C	
I/O Map (D-Sub 9Pin M)	1. Temperature monitor $V_T = 0.02(V) * T(^{\circ}C) + 1(V)$, T=Case Temperature ± 5°C	
(Optional)	2. Power Monitor : Log Slope detector $V_{pin2} = 4 \pm 0.1$ @ CW 46dBm , slope:0.1V/dB $V_{pin2} = 4 - (46 - P_{out}) * 0.1 \pm 0.1V$	
	3, 8. GND	
	4. Reflect Power Monitor : Linear Slope Detector $V_{pin4} = 1.4 \pm 0.1 V$ when Reflected Power = 41.5 ± 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 leared once Reflected power monitor oltage go down 1.4 ± 0.1	VSWR Alarm when Reflected Power > 41.5 dBm
	6, 7. Vcc (27V)	
	9. Enable (Active low)	pulled-up @ 5V with 10 khom

Mechanical Drawing

Model Name : RCA08-10H46CWB

Dimension (W x D x H) : 135(W) x 100(D) x 22(H)mm



Mounting hole Position

