

Broadband High Power Amplifier

Product Name : RCA08-10H44A

Doc. Name : General Spec.

<p>General Specification for RCA08-10H44A</p>

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2009/12/7	2009/12/7		A	RFcore co.,Ltd
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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>

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ELECTRICAL SPECIFICATIONS

Parameter	Specification	Remark
Frequency Range	800 ~ 1000 MHz	
Saturated Output Power	25 W typical	Tcase = 35°C
Small Signal Gain	40 ± 1.2 dB	Input = -15dBm , Tcase = 35°C
Gain Flatness	Peak to Peak 2.5 dB	Input = -15dBm, Over Freq Band
Maximum Input Power	7 dBm max	
Input VSWR	Less than 1.5 : 1	
Output VSWR	Less than 1.5 : 1	
DC Input Current	3.5 A max	Tcase = 35°C
DC Input Voltage	27 ± 1.0 Vdc	
RF Input Signal Format	CW	
I/O Map	<ol style="list-style-type: none"> 1. Temperature Monitor 2. Forward Power Monitor 3,8. GND 4. Reflect Power Monitor 5. VSWR Fail Alarm 6,7. Vcc 9. Enable(Active Low) 	VT= 0.02(V) * T(°C)+1(V) , T=Case Temperature ± 5°C Log Slope detector Slope 0.1 V, 4 V at 44dBm output. Linear Slope Detector Vpin4 ~1.4V @ Reflected Power = 39.5 dBm Vpin5 = High (5V) When Vpin4 > 1.4 ±0.1 pulled-up @ 5V with 10kΩ

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ENVIRONMENTAL SPECIFICATIONS

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

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	135 x 100 x 22 mm	
RF Input / Output Connector	SMA – Female	
DC & Interface Connector	D – Sub 9 Pin Male	

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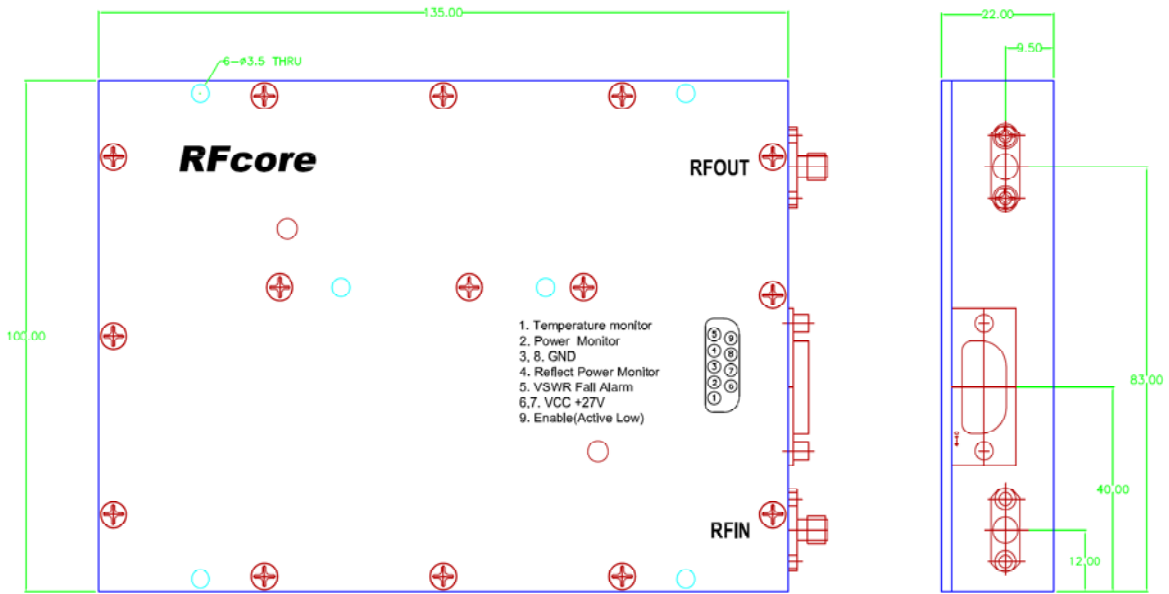
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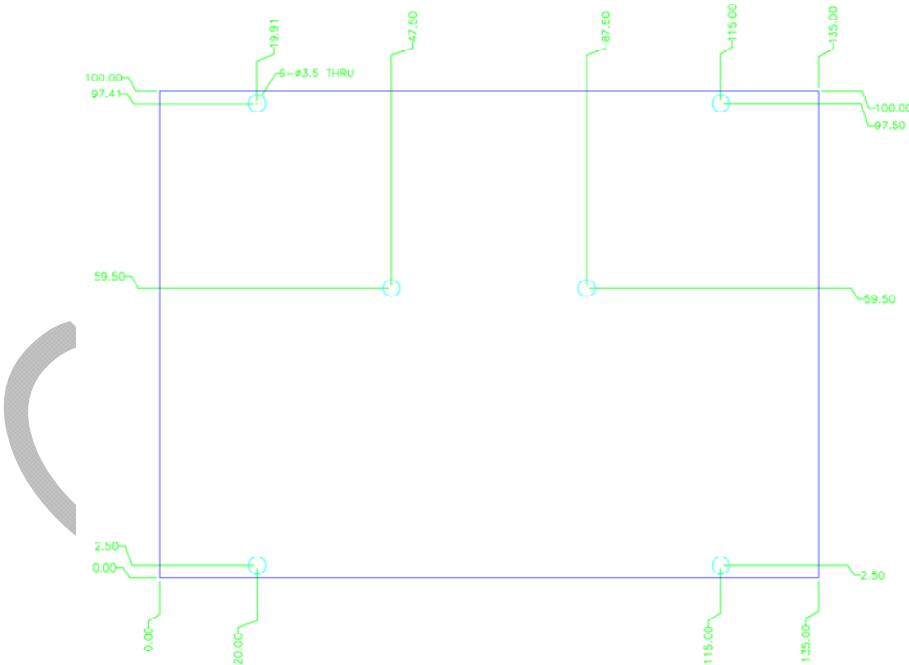
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MECHANICAL DRAWING



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