

# Broadband High Power Amplifier

Product Name : RCA0525H47D, Code Name : B3Y6SD3EN5048

Doc. Name : Preliminary Short Spec.

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<p><b>Preliminary Short Specification</b> for <b>RCA0525H47D</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2011/7/18	2011/7/18		A	<i>RFcore co.,Ltd</i>
File : RCA0525H47D Short Spec.docx				

*The Specifications is subject to change before finalization*

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc ≅ 35 °C
Parameter	Specification	Remark
Frequency Range	500 ~ 2500 MHz	
Saturated Output Power	50 W typ.	40W min.
Small Signal Gain	48 dB min.	Input Power = -15dBm
Small Signal Gain Flatness	Peak to Peak 6.0 dB	Input Power = -15dBm
Input VSWR	Less than 2 : 1	
Maximum Input Power	10 dBm	
Signal Format	CW	
DC Current Consumption	6.0 A typ.	@ Pout = 40W
DC Input Voltage	28 ± 1.0Vdc	
I/O Map	<ol style="list-style-type: none"> <li>1. Enable (Active Low)</li> <li>2. Forward Power Monitor</li> <li>3. Fast Back-off</li> <li>4. Do not connect</li> <li>5. Temperature Monitor</li> <li>6, 7. Vcc</li> <li>8,9. GND</li> </ol>	<p>pulled-up @ 5V with 10k ohm</p> <p>Vpin2 is Output voltage of diode detector. It has non-log slope characteristic.</p> <p>5V(Back-off by 20~30dB), 0V(Normal Gain)</p> <p>VT = (0.02V * Temp°C)+1V</p>

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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	145 x 95 x 25 mm	
RF Input / Output Connector	Input : SMA – Female Output : SMA -Female	
DC Power & Interface Connector	D-Sub 9Pin Male	

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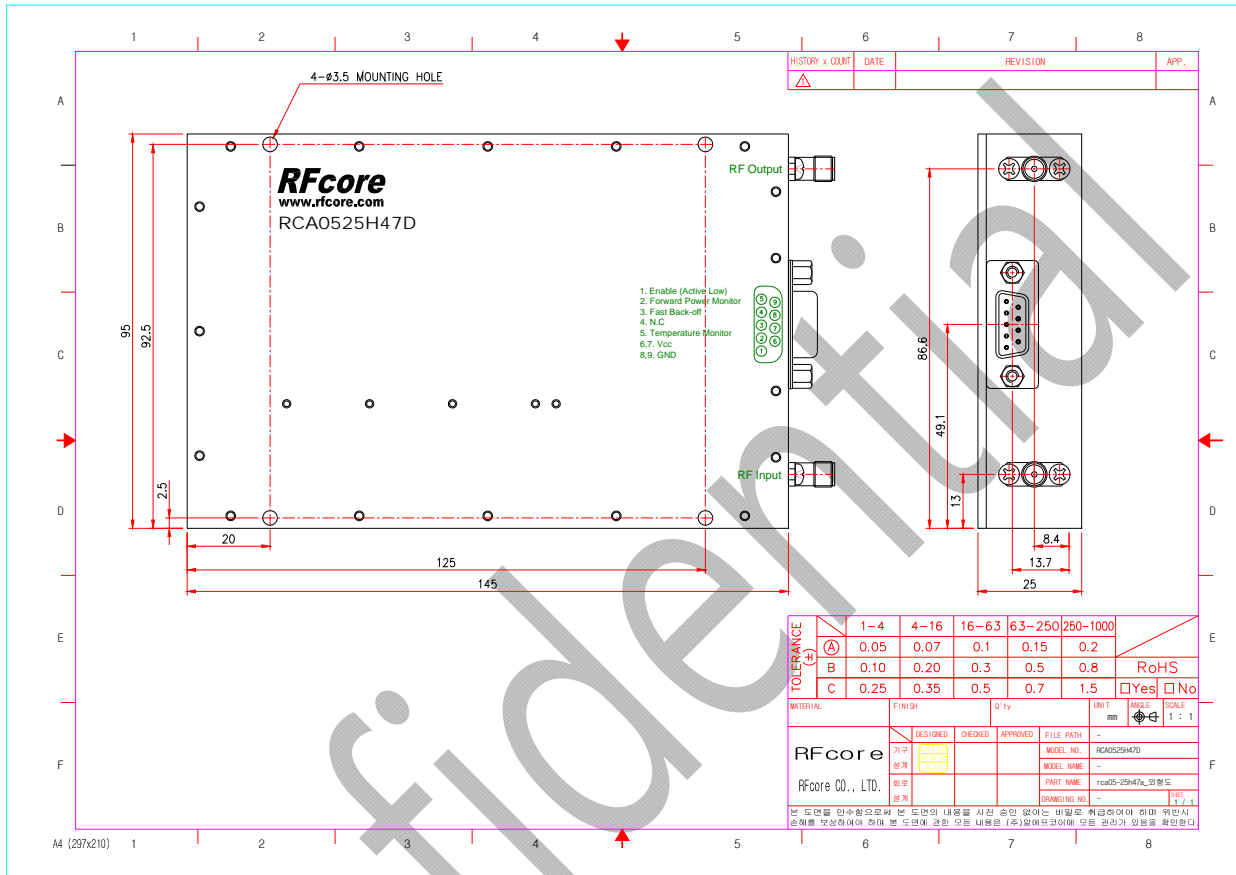
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## MECHANICAL DRAWING



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