

# Broadband High Power Amplifier

Product Name : RCA0727H49C

Doc. Name : Preliminary Short Spec.

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<p><b>Preliminary Short Specification</b> for <b>RCA0727H49C</b></p>
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Created	Printed	Document Number	Revision	Manufacturer
2014/12/11	2017/1/12		B	<b>RFcore co.,Ltd</b>
File : RCA0727H49C Short Spec.docx				

*The Specifications is subject to change before finalization*

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<http://www.rfcore.com>

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ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 28 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	700 ~ 2700 MHz	
Saturated Output Power	49 dBm min.	@ CW
Small Signal Gain	49 dB min.	Input Power = -15dBm
Gain Flatness	Peak to Peak 6.0 dB	Input Power = 0dBm
Maximum Input Power for no damage	7 dBm max.	
Input VSWR	Less than 2 : 1	
DC Input Voltage	28 ± 1.0 Vdc	
Current Consumption	14 A max. 12 A typ.	@ Pout = 49 dBm
I/O Interface (7W2 Male)	1. Enable (Active Low)	Pulled-up @ 5V with 10k ohm
	2. Forward Power Monitor	Logarithmic Detector (0.05/dB)
	3. Fast Back-off	5V(Back-off by 20~30dB), 0V(Normal Gain)
	4. Do Not Connect	
	5. Temperature Monitor	VT = 0.01 * Tc + 0.5 (V) Tc is Case Temperature in degC ± 5°C
	A1. Vcc	
	A2. GND	

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ +70 °C	
Storage Temperature	-40 ~ +85 °C	

MECHANICAL SPECIFICATIONS		
Parameter	Specification	Remark
Dimension	180 x 95 x 25 mm	
RF Input / Output Connector	SMA Female	
Control Connector	7W2 Male	
Cooling	Adequate Heat-sink required	

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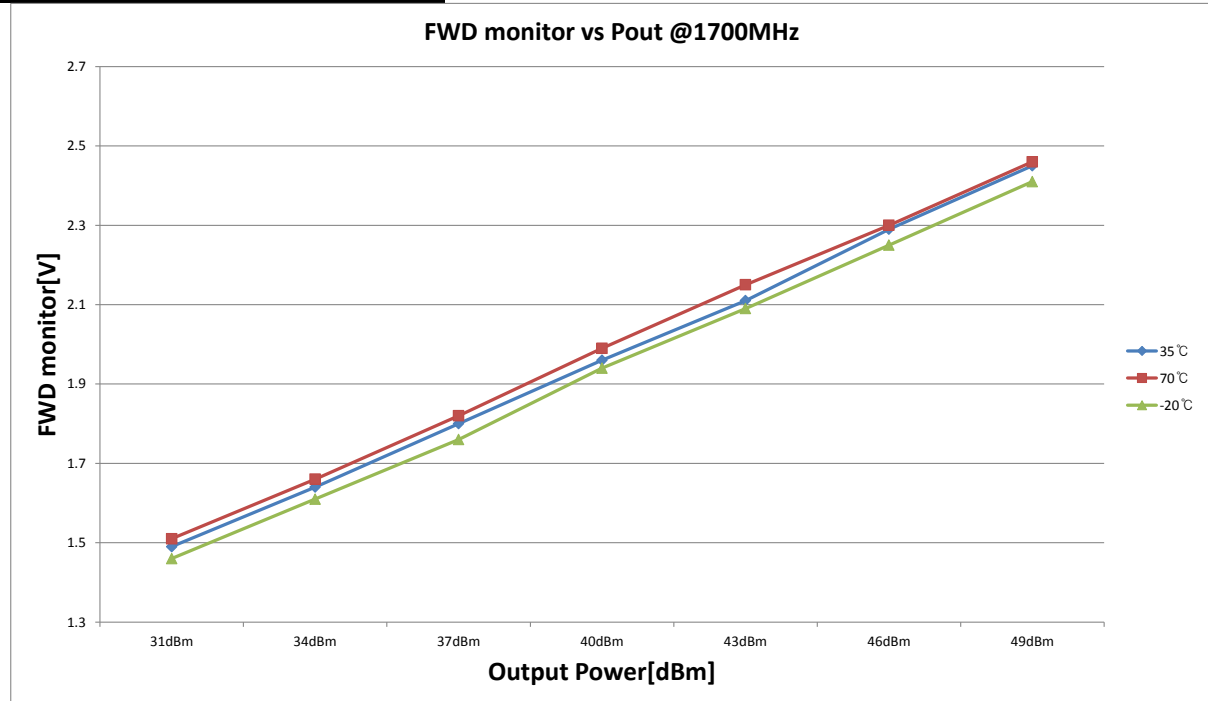
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## Performance



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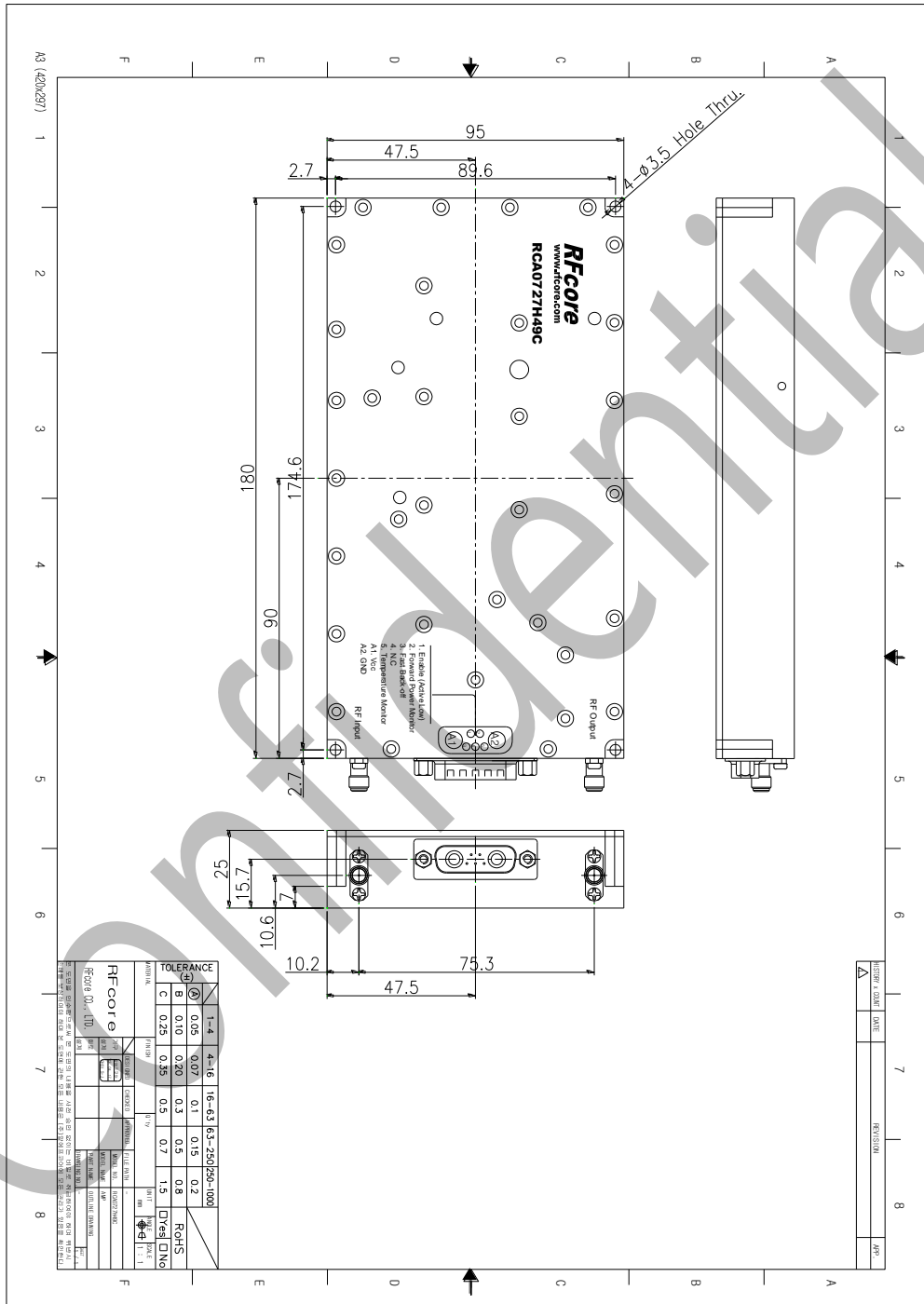
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## MECHANICAL DRAWING



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