

Band-Specific High Power Amplifier

Product Name : RCA1117H47D, Code Name :

Doc. Name : General Spec.

<p style="text-align: center;">General Specification for RCA1117H47D</p>
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1

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Created	Printed	Document Number	Revision	Manufacturer
2016/2/26	2017/1/12		B	RFcore co.,Ltd
File : RCA1117H47D General Spec.docx				

The Specifications is subject to change before finalization

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ELECTRICAL SPECIFICATIONS		@ 28 Vdc, 50 Ohms Load, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	1100 ~ 1700 MHz	
Saturated Output Power	47 dBm min.	CW
Gain	48 dB min.	Input = -15dBm
Gain Flatness	Peak to Peak 2.5 dB	Input = -15dBm
Maximum Input Power for no damage on DC ON	7 dBm max.	
Input VSWR	Less than 2 : 1	
Output VSWR	Less than 2 : 1	Built in Isolator
On/Off Switching time	1 usec typ.	
DC Input Voltage	+28 ± 1.0 Vdc	
DC Input Current	8 A max. 6.5 A typ.	@ Pout = 50W
I/O Map	1. Enable (Active low)	pulled-up@5V with 10KΩ
	2. Forward Power Monitor	Logarithmic Detector(0.05V/dB)
	3. VSWR Fail Alarm	Alarm : TTL High @ Infinite VSWR such as OPEN or SHORT
	4. Reflected Power Monitor	Logarithmic Detector(0.05V/dB)
	5. Temperature Monitor	VT= 10(mV) * Tc(°C) + 500(mV), Tc = Case Temperature ± 5°C
	6. Vcc	
	7. Vcc	
	8. GND	
	9. GND	

2

ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-10 ~ 70 °C	
Storage Temperature	-40 ~ 85 °C	

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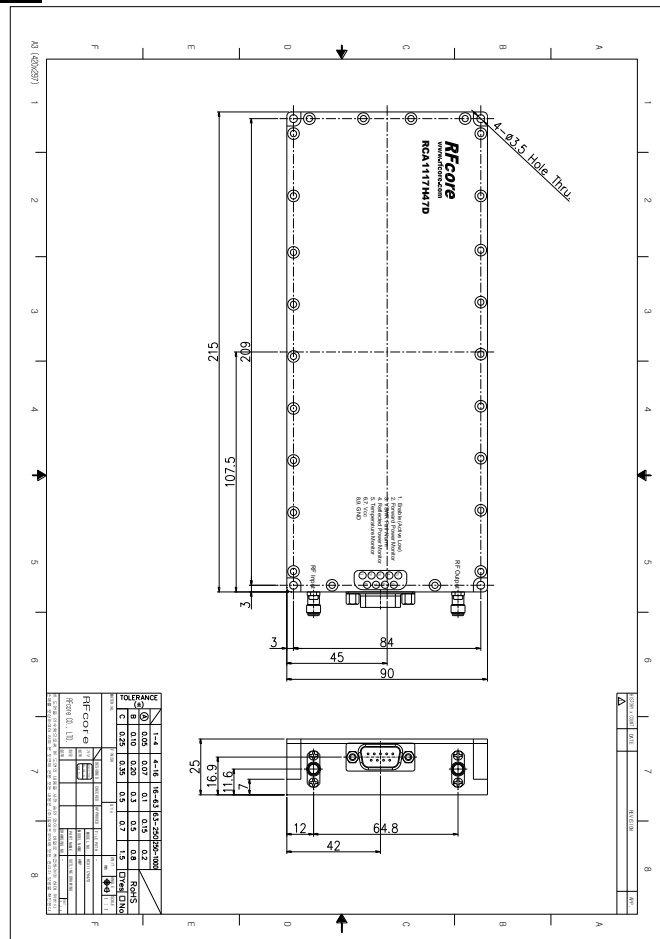
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MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	215 x 90 x 25 mm	
Weight	Less than 1100 g	
RF Input Connector	SMA – Female	
RF Output Connector	SMA – Female	
I/O Interface Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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