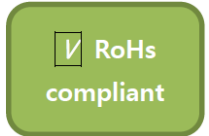


Band-Specific High Power Amplifier

Product Name : RCA800H50D2, Code Name : A3Y3SD3OI45

Doc. Name : General Spec.

General Specification for RCA800H50D2



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Created	Printed	Document Number	Revision	Manufacturer
2015/1/14	2015/1/14		B	RFcore co.,Ltd
File : RCA800H50D2 General Spec.docx				

The Specifications is subject to change before finalization

Customer Service: Tel. 82-31-708-7575

Email: sales@rfcore.com

<http://www.rfcore.com>

Band-Specific High Power Amplifier

Product Name : RCA800H50D2, Code Name : A3Y3SD30I45

Doc. Name : General Spec.

ELECTRICAL SPECIFICATIONS		@ 50 Ohms load, 27 Vdc, Tc = 35 °C
Parameter	Specification	Remark
Frequency Range	791 ~ 894 MHz	
Saturated Output Power	50 dBm min.	
Small Signal Gain @ Center Frequency	45 ± 0.5 dB	Input = -15dBm
Gain Flatness	Peak to Peak 4 dB	Input = -15dBm, Over Freq Band & Temp
Gain Stability	± 1.5 dB	Operating temp.
Maximum Input Power for no damage on DC ON	10 dBm max	
Maximum Input Power for no damage on DC OFF	25 dBm max	
Input / Output VSWR	Less than 1.5 : 1	
On/Off Switching time	5uS max.	
DC Input Current	14 A max. 12 A typ.	@ Pout = 100W
DC Input Voltage	+27 ± 1.0 Vdc	
RF Input Signal Format	CW	
I/O Map	1. GND	
	2,7. Do not connect	
	3. VSWR Fail Alarm	Alarm : reflected power = 25~ 50W @ Fcenter
	4. Temperature Monitor	VT= 3.6 - 0.022 x (T-30) T = Case Temperature ± 5°C
	5. Over Temp Alarm	Alarm : High(5V) @ case temp. 85 ± 5°C
	6. Enable (Active low)	pulled-up@5V with 10KΩ
	8. Forward Power Monitor	4 ±0.1V @ CW 50dBm, slope : 0.1V/dB Vpin8 = 4-(50-Pout)x0.1±0.1V
	9. Reflected Power Monitor	Vpin9 is the output of diode detector. it has non- log slope characteristic. 0.2 ~ 1V @ 10W ~ 100W @ Fcenter

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ENVIRONMENTAL SPECIFICATIONS		
Parameter	Specification	Remark
Operating Case Temperature	-20 ~ 75 °C	
Storage Temperature	-40 ~ 85 °C	

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Band-Specific High Power Amplifier

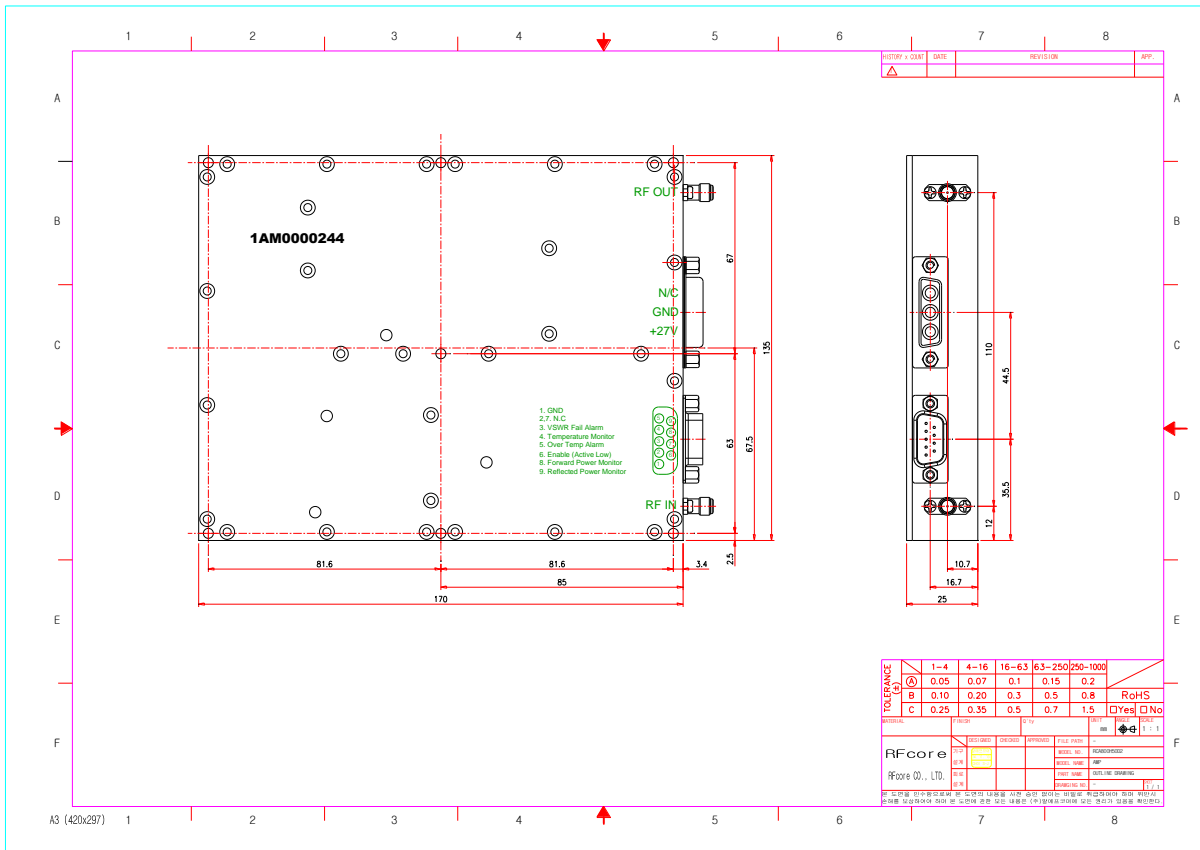
Product Name : RCA800H50D2, Code Name : A3Y3SD3OI45

Doc. Name : General Spec.

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	170 x 135 x 25 mm	
RF Input / Output Connector	SMA – Female(2H) / SMA – Female(2H)	
DC Connector	3W3P(A1: +27V, A2: GND, A3: N.C)	
Control Connector	D-Sub 9Pin Male	
Cooling	Adequate Heat-sink required	

MECHANICAL DRAWING



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