

Band-Specific High Power Amplifier

Product Name : RCA1900H44CWB

Doc. Name : Preliminary Short Spec.

**Preliminary Short Specification
for
RCA1900H44CWB**

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Created	Printed	Document Number	Revision	Manufacturer
2010/1/13	2011/12/20		A	<i>RFcore co.,Ltd</i>
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The Specifications is subject to change before finalization

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ELECTRICAL SPECIFICATIONS

Parameter	Specification	Remark
Frequency Range	1930 ~ 1990 MHz	
Saturated Output Power	25 W typical	Tcase = 35°C
Small Signal Gain	40 ± 1.0 dB	Input = -15dBm , Tcase = 35°C
Gain Flatness	Peak to Peak 2.0 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 A max	@ Pout = 25W Tcase = 35°C
DC Input Voltage	+27 ± 1.0 Vdc	
RF Input Signal Format	CW	
I/O Map	1. Temperature Monitor	VT={0.02(V) x T(°C)}+1(V)
	2. Power Monitor : Log Slope detector	@CW 44dBm, slope : 0.1VdB Vpin2=4-(44-Pout)x0.1±0.1V
	3, 8. N.C	
	4. Reflect Power Monitor	Vpin4=1.4V±0.1V Reflect power=39.5±1.5dBm
	5. VSWR Fail Alarm	38dBm < Reflect power < 41dBm
	6. Vcc +27V	
	7. GND	
	9. Enable (Active low)	pulled-up@5V with 10KΩ

ENVIRONMENTAL SPECIFICATIONS

Parameter	Specification	Remark
Operating Ambient Temperature	-20 ~ 60 °C	
Storage Temperature	-40 ~ 80 °C	

MECHANICAL SPECIFICATIONS

Parameter	Specification	Remark
Dimension	110 x 90 x 22 mm	
RF Input / Output Connector	SMA – Female	
DC & Interface Connector	D – Sub 9 Pin Male	

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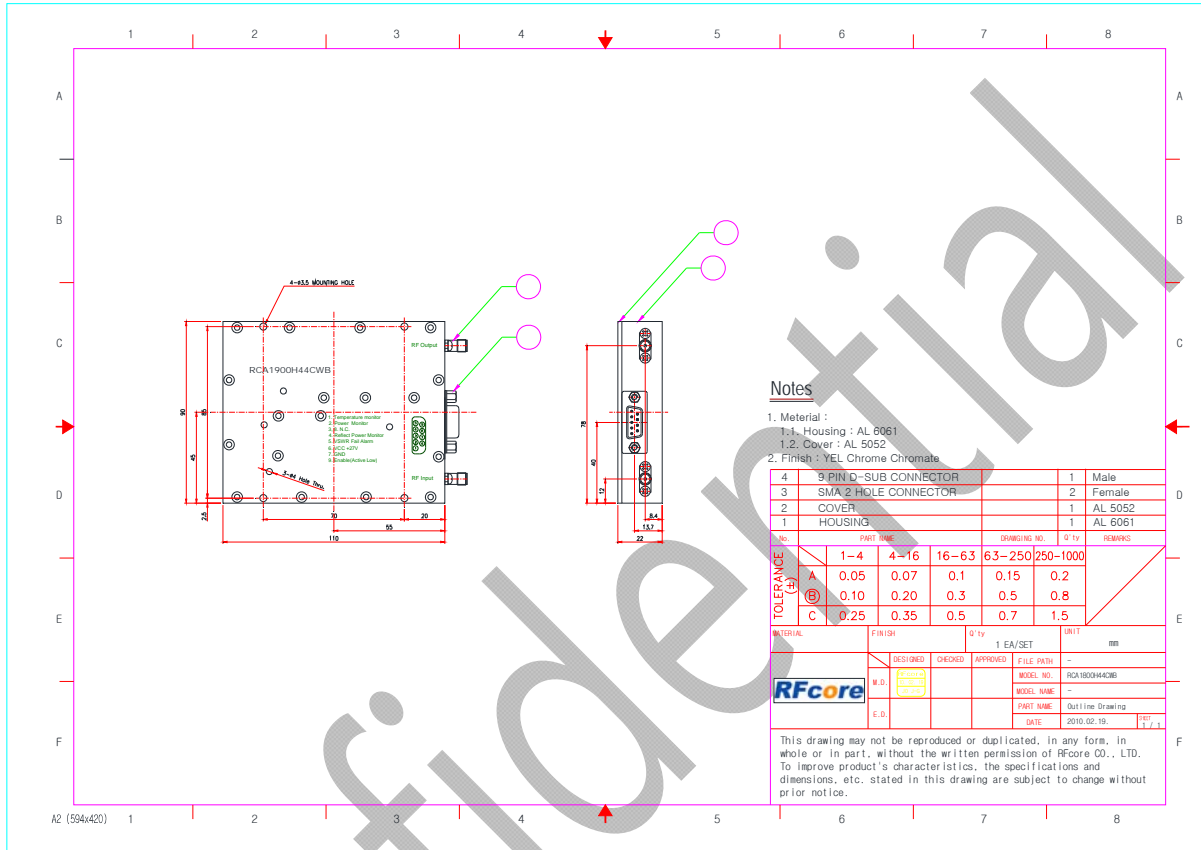
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MECHANICAL DRAWING



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