



# APPROVAL SHEET

PRODUCT : AC/DC S.P.S

CUSTOMER : 德勝 CUSTOMER PART NO. : \_\_\_\_\_

VENDOR : YCL VENDOR PART NO. : AHR-004A

<b>APPROVED BY</b>	
<b>德勝</b>	<b>YCL</b>
	Jackie Tsai Sundi Lin

**YCL ELECTRONICS CO.,LTD.**

**卓智電子股份有限公司**

**HEAD OFFICE & FACTORY**

**No.95,Feng Jen Road,  
Feng Shan City,Kaohsiung,  
Taiwan,R.O.C.**

**高雄縣鳳山市鳳仁路95號**

**TEL : 886-7-7458587**

**FAX : 886-7-7459120**





卓智電子股份有限公司

YCL ELECTRONICS CO., LTD.

Tel.: +886-(0)7-745-8587 Fax.: +886-(0)7-745-9120

830 高雄縣鳳山市鳳仁路 95 號 <http://www.ycl.com.tw/>

No.95, Feng Jen Road, Feng Shan City 830, Kaohsiung County, Taiwan



為修改電源特性與德勝系統有關機舜斷的情形，作以下修正與說明：

A. 修正材料如下：

- a. R61 修正 LAYOUT(For power good)
- b. C30：追加並聯 4.7u.
- c. C41:47u 變更為 220u
- d. C45:22u 變更為 120u
- e. ZD3:18V 變更為 24V
- f. R18：0 ohm 變更為 4.7ohm
- g. R4：0.33 ohm 變更為 0.39 ohm

B. 主要修改特性為：

瞬斷發生的同時輸入功率原約 18~20W，卻有突然上昇到 60W 的情況，因此以減緩 POWER 開關機的時間，使其 turn on delay 拉長，並延長 hold up time.

可以解決不規則開關機時，所造成的 power 未完全開機或關機的錯誤訊號的訊息，而行成 power down。

因使其 power 線路減緩開關機速度，因此另外修改 Over load protection 拉近，避免保護動作太慢。

C. A 機與 B 機作 Turn/off 切換時，務必確定 power good LED 已亮，再作另一台關機的動作.

D. 電源線插上 POWER 作插拔動作時有瞬斷問題：

暫時對策：將輸出接地已接線方式接到外殼。

永久對策：後續生產則修改 PCB.(Please refer as below)

E. 測試規範：

產線以第二版客戶系統測試

- a. A 機開關 5 次，判斷舜斷問題。
- b. B 機開關 5 次，判斷舜斷問題。
- c. A/B 交換切換 5 次，判斷舜斷問題。

插拔測試由台灣品管以客戶第三版系統插拔 5 次，判斷舜斷問題。

Approved By: Sundi Lin

Checked By:

Prepared By: Jackie Tsai  
2006.01.12

Head Office (KAOHSIUNG)

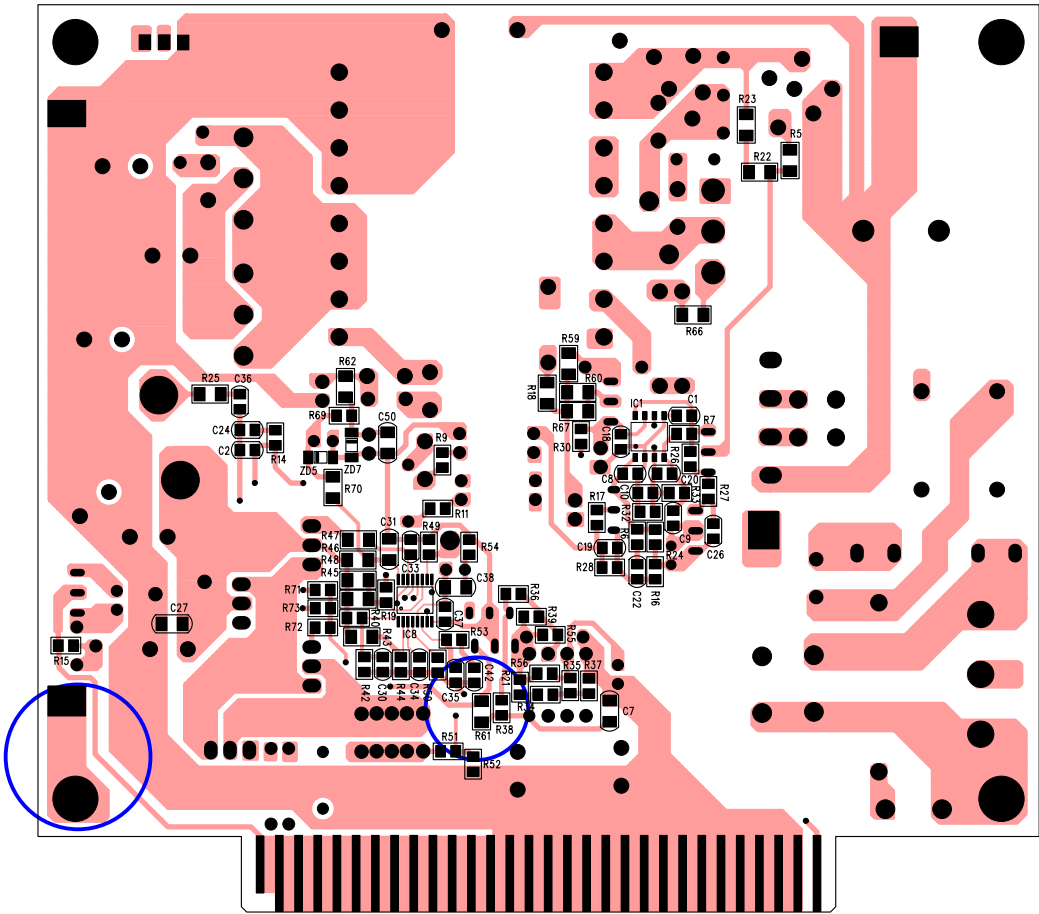
TEL: 886-7-7458587

FAX: 886-7-7459120

E-MAIL: [Sales@ycl.com.tw](mailto:Sales@ycl.com.tw)

PCB419-C

# Silkscreen Bottom



Customer :

Model : AHR-004A

S/N : S0550000006 | P/N : | Date Code : 0550

Date : 01/05/2006 | Time : 08:34:48

Testing Time : 48.22 Sec | Result : PASS

TestItem Description	CH	Min	Max	Value	Result
FU LOAD[115V @ 17.00A] (100%)	1	4.900	5.100	5.018	PASS
FU LOAD[230V @ 17.00A] (100%)	1	4.900	5.100	5.018	PASS
NO LOAD[115V @ 0.00A] (0%)	1	4.900	5.200	5.068	PASS
NO LOAD[230V @ 0.00A] (0%)	1	4.900	5.200	5.066	PASS
OVP[115V @ 3.40A] (20%)	1	4.900	5.200	5.054	PASS
OVP[230V @ 3.40A] (20%)	1	4.900	5.200	5.054	PASS
Line Regulation [100V]	1	4.800	5.100	5.018	PASS
Line Regulation [275V]	1	4.800	5.100	5.018	PASS
Line Regulation [100V ~ 275V] (%)	1	0.000	1.000	0.000%	PASS
5V LOAD REG[115V / 17.00A] 100% (V)	1	4.800	5.100	5.020	PASS
5V LOAD REG[115V / 8.50A] 50% (V)	1	4.800	5.100	5.042	PASS
5V LOAD REG[115V] (%)	1	0.000	2.000	0.436%	PASS
5V LOAD REG[230V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[230V / 8.50A] 50% (V)	1	4.800	5.100	5.042	PASS
5V LOAD REG[230V] (%)	1	0.000	2.000	0.674%	PASS
Input Power [115V] (W)	--	0.000	135.000	128.600	PASS
Efficiency [115V] (%)	--	63.000	100.000	66.315%	PASS
5V O.L.P [115V / 110% ~ 250%] (%)	1	110.000	200.000	137.958%	PASS
5V O.L.P [230V / 110% ~ 250%] (%)	1	110.000	200.000	142.529%	PASS
Short Circuit [115V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [115V] (W)	--	0.000	100.000	1.900	PASS
Short Circuit [230V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [230V] (W)	--	0.000	100.000	5.300	PASS
Drop Out (V)	--	0.000	85.000	65.050	PASS
Ripple/noise [115V/ 17.00A] 100%				40 mVPP	
Ripple/noise [230V/ 17.00A] 100%				40 mVPP	

Customer :

Model : AHR-004A

S/N : S0550000043 | P/N : | Date Code : 0550

Date : 01/05/2006 | Time : 08:41:20

Testing Time : 44.54 Sec | Result : PASS

TestItem Description	CH	Min	Max	Value	Result
FU LOAD[115V @ 17.00A] (100%)	1	4.900	5.100	5.008	PASS
FU LOAD[230V @ 17.00A] (100%)	1	4.900	5.100	5.008	PASS
NO LOAD[115V @ 0.00A] (0%)	1	4.900	5.200	5.072	PASS
NO LOAD[230V @ 0.00A] (0%)	1	4.900	5.200	5.072	PASS
OVP[115V @ 3.40A] (20%)	1	4.900	5.200	5.046	PASS
OVP[230V @ 3.40A] (20%)	1	4.900	5.200	5.044	PASS
Line Regulation [100V]	1	4.800	5.100	5.006	PASS
Line Regulation [275V]	1	4.800	5.100	5.008	PASS
Line Regulation [100V ~ 275V] (%)	1	0.000	1.000	0.040%	PASS
5V LOAD REG[115V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[115V / 8.50A] 50% (V)	1	4.800	5.100	5.032	PASS
5V LOAD REG[115V] (%)	1	0.000	2.000	0.477%	PASS
5V LOAD REG[230V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[230V / 8.50A] 50% (V)	1	4.800	5.100	5.030	PASS
5V LOAD REG[230V] (%)	1	0.000	2.000	0.437%	PASS
Input Power [115V] (W)	--	0.000	135.000	129.600	PASS
Efficiency [115V] (%)	--	63.000	100.000	65.665%	PASS
5V O.L.P [115V / 110% ~ 250%] (%)	1	110.000	200.000	138.022%	PASS
5V O.L.P [230V / 110% ~ 250%] (%)	1	110.000	200.000	143.219%	PASS
Short Circuit [115V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [115V] (W)	--	0.000	100.000	21.800	PASS
Short Circuit [230V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [230V] (W)	--	0.000	100.000	4.900	PASS
Drop Out (V)	--	0.000	85.000	65.050	PASS
Ripple/noise [115V/ 17.00A] 100%				40 mVPP	
Ripple/noise [230V/ 17.00A] 100%				40 mVPP	

## 工程文件變更申請書〔 ECR 〕

變更申請書編號： **RDER0520186**      發行日期： 2005 年      月      日

文件名稱	工程規格書	文件編號	RDSP AHR004A
發行部門	開發二課	申請部門	開發二課

**申請理由或依據 (申請部門)**

1. 變更原因: 因配合客戶系, 改善瞬間斷電而修改變更

2. 變更內容:

R46 原 SMDR 1206 51Ω 刪除

R69 追加 P/N: A02000148-ZZZZ SMDR 0805 100Ω±5%

R4 原無鉛金屬膜(MOF)2W 0.33Ω 變更爲 P/N: A01000286-ZZZZ 無鉛金屬膜(MOF)2W0.39Ω

C41 原 47Uf/50V 刪除變更爲 P/N: A14000230-1381 無鉛 C 電解 SXE 220 uF 35v 8\*20

C45 原 22Uf/16V 刪除變更爲 P/N: A14000229-1381 無鉛 C 電解 SXE 120 uF 6.3v 5\*11.5

C30 原 104K 刪除變更爲 P/N: A17000401-ZZZZ 無鉛 SMDC 1206 Y5V 475Z 4.7 uF 25V

因 ZD3 燒毀將原 R18 SMDR 1206 0Ω 變更爲 P/N: A02000226-ZZZZ SMDR 1206 4.7Ω

ZD3 原 18V 變更爲 P/N: A31000127-1483 DIODE ZENER HZ24-3 24V 1/2W DO35

3. 版次標籤原 ROA 變更爲 P/N: J00000149-0464 ROB

4. 以上呈核后, 以進行修改工程規格書

PCB 419 B → PCB 419 C

核准：

確認：

承辦：



**確認結果 (文件發行部門)**

可

核准：

*林香芬*

安規確認：

確認：

*林香芬*

承辦：

# 85W Open Frame Single Output Power Supply

## Model No. : AHR-004A

### Feature:

- 90 to 275Vac universal input range.
- Meet UL/CUL, TUV.
- EMI/RFI meet VDE & FCC limit B.
- Low cost & compact size.
- Size : 164.8×140×42.8mm.
- 2 Year Warranty.

### Specifications: typical at nominal line, full load at 25 ° C.

Input Specifications:	General Specifications:
Input voltage: 90 to 275Vac	Efficiency: 65% typical at full load
Input Frequency: 47 Hz to 63Hz	Hold-up time: 15ms @ 115Vac full load
Input inrush current : 30A at 115Vac 60A at 230Vac	EMI/RFI: VDE & FCC Class B limits
Earth leakage: 0.5mA max @ 230Vac	Dielectric Withstand ( 1min): Input /Output: 3000Vac Input/ Ground: 1500Vac
Output Specifications:	★ Safety Meet : UL/CUL UL60950 TUV EN60950
Output Rating: +5V/17A	
Output Voltage Accuracy : ± 5% max.	Switching frequency: 70kHz(reference)
Line Regulation: ± 1% max.	Weight: 400g
Load Regulation: ± 2% max (full to half load)	MTBF: 100,000hours(MIL-HDBK-217F)
Transient Response: ± 1% max.dev. (Full to half load) 500uS recovery	Environmental Specifications:
Temperature Coefficient: ± 0.04% / °C	Operating Temperature: 0 to +50°C
Ripple & Noise: 100mV max.	Storage Temperature: -20 to +85°C
Protections: a. Over voltage protection b. Over power protection c. Short circuit protection	Operating Humidity: 20 to 90 %
	Storage Humidity: 10 to 95 %
	Vibration: 2.0G , 10 to 500Hz
	Cooling: convection cooling

### Note:

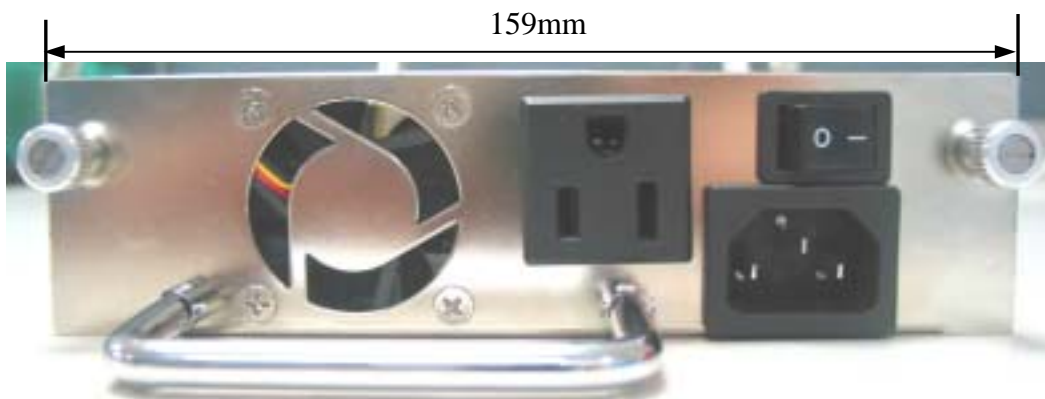
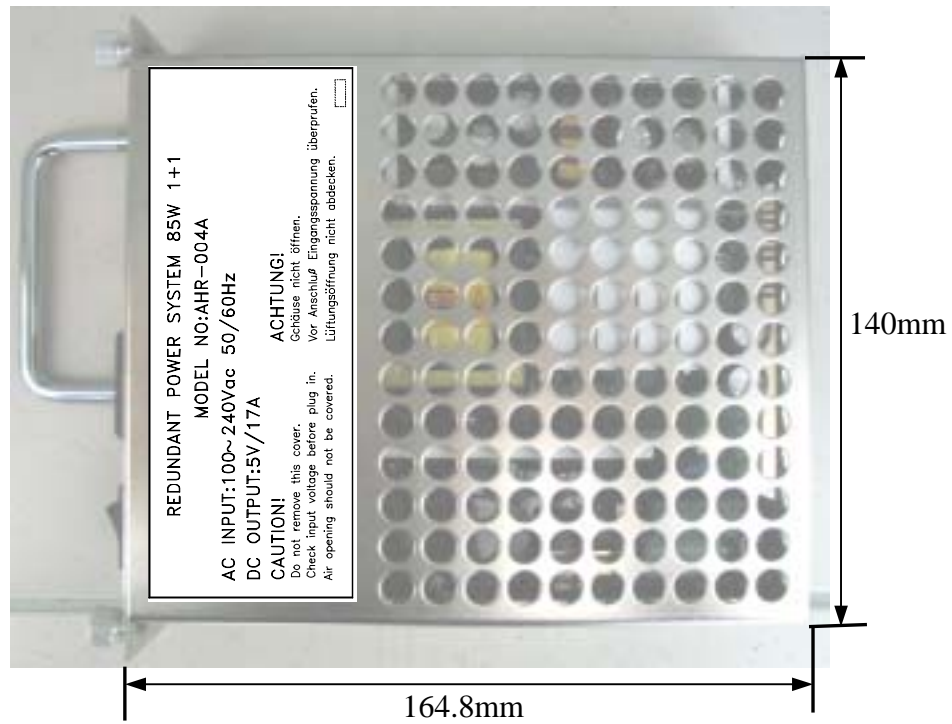
1. Vibration test: Three orthogonal axes, random vibration, 10 minutes for each axis.
  2. Maximum output power is 85W.
  3. At least 20% of load is required to obtain stable regulation.
  4. Ripple & noise test method is measured at output terminal across a 0.1uF ceramic cap & a 10uF tantalum cap in parallel with a 20MHz bandwidth oscilloscope directly.
- ★ Please refer the safety approval status on appendix 1, For latest safety approval status Please consult YCL or visit" [www.ycl.com.tw](http://www.ycl.com.tw)



# 85W Open Frame Single Output Power Supply

**Model No. : AHR-004A**

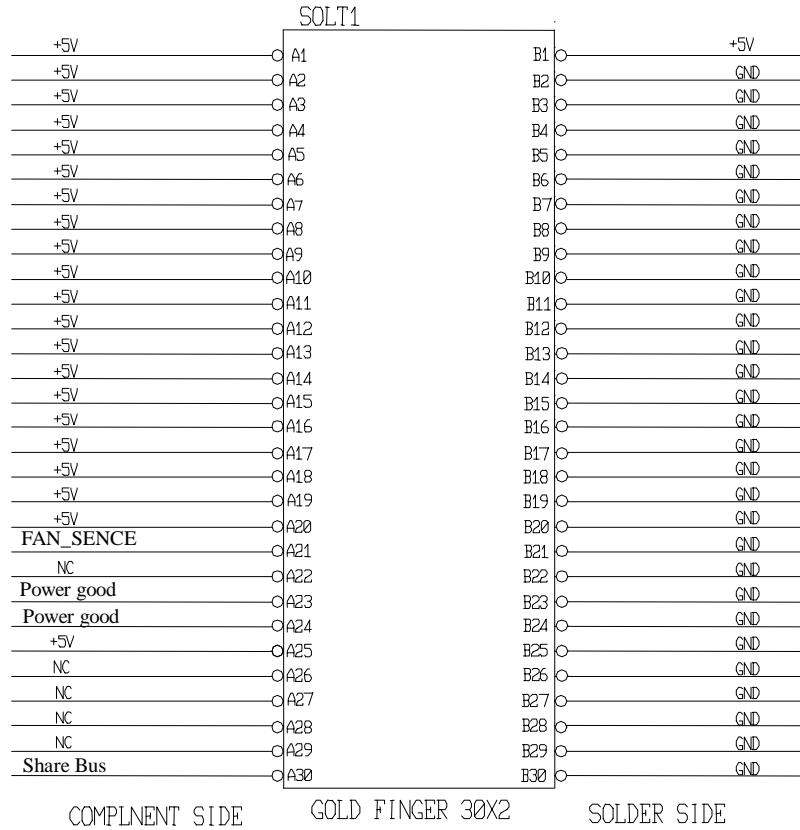
**Dimensions:** mm  $\pm$  0.5mm

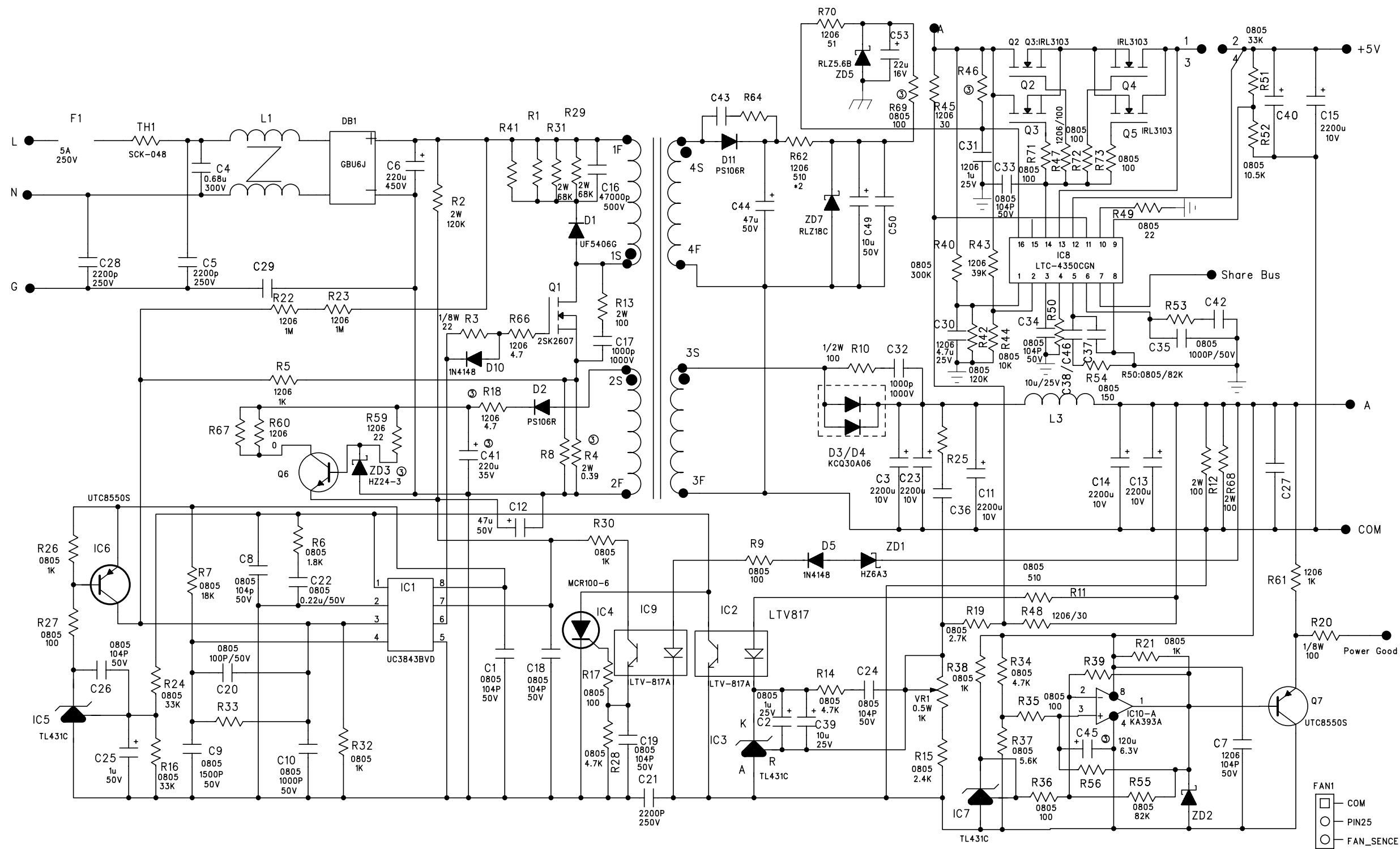


# 85W Open Frame Single Output Power Supply

## Model No. : AHR-004A

### POWER MODULE GOLD FINGER DEFINE



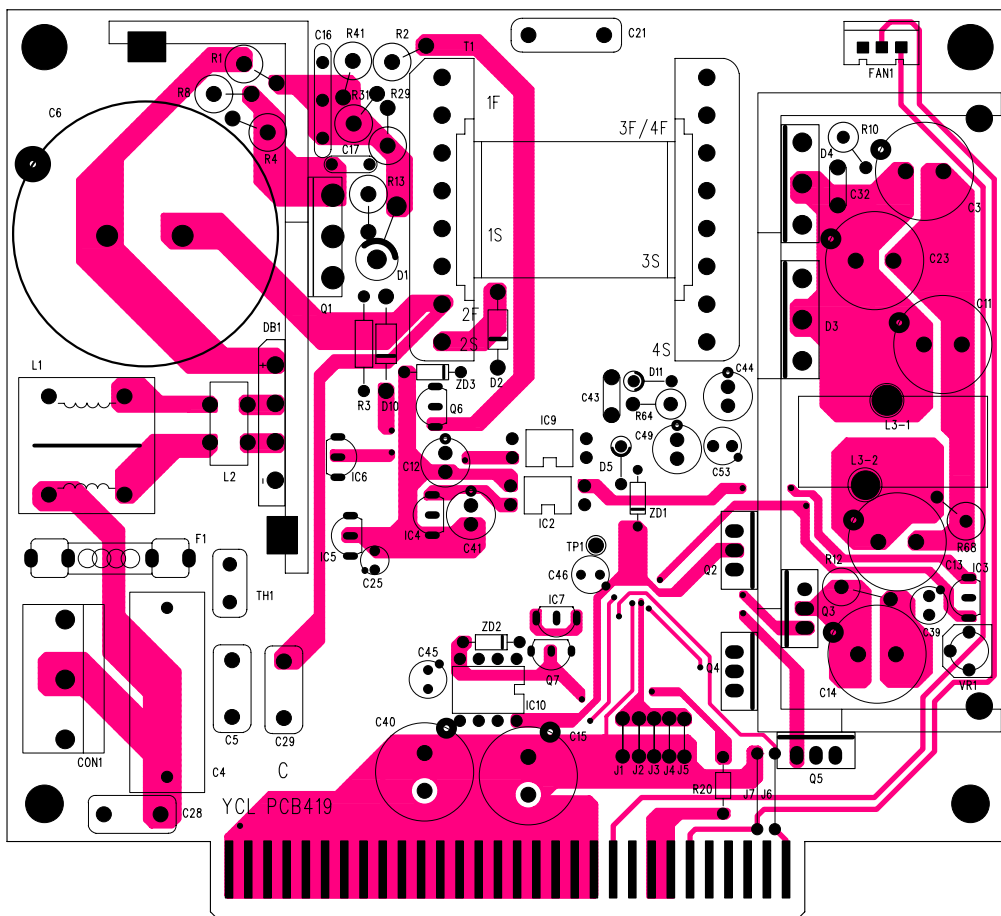


③ :RDEC0520186

APPROVED	CHECKED	PREPARED	YCL ELECTRONICS CO.,LTD.	
林秀芬	蔡佳紘	吳珮勤 陳麗敏	SIZE: A3	Document Number: AHR-004A.SCH
			REV: B	
			01/18/2006	

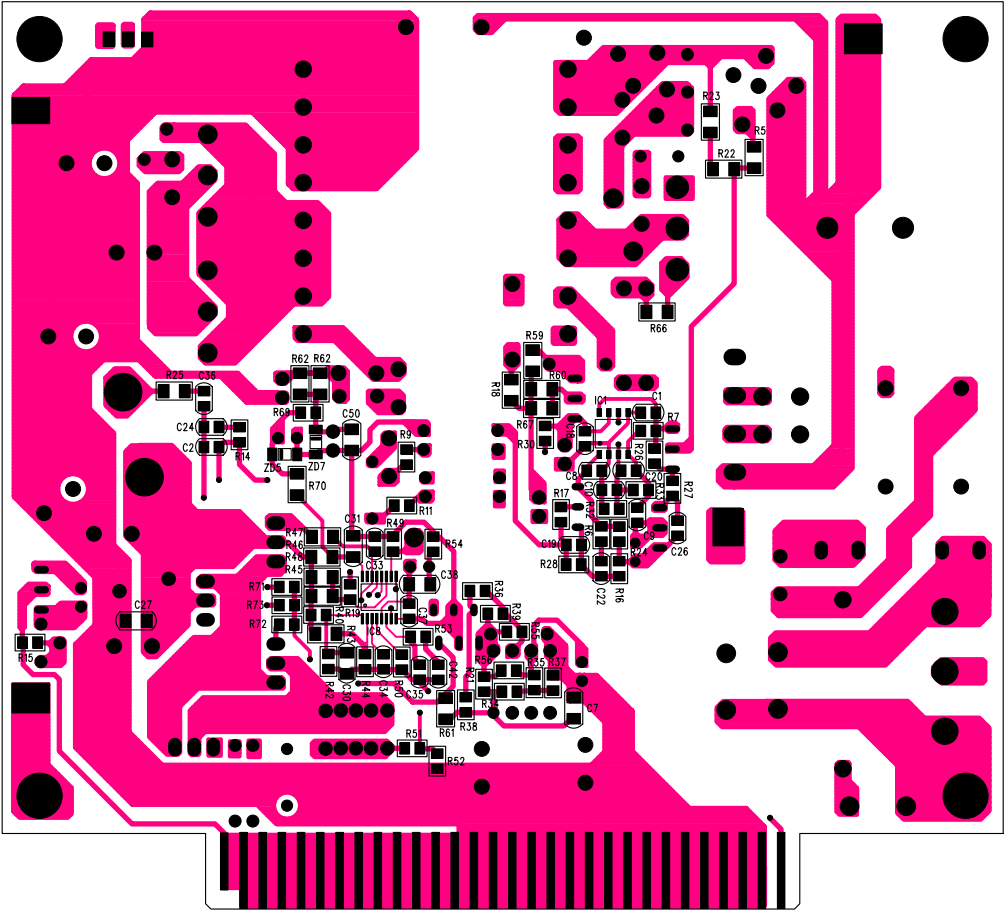
# Silkscreen Top

PCB419-C

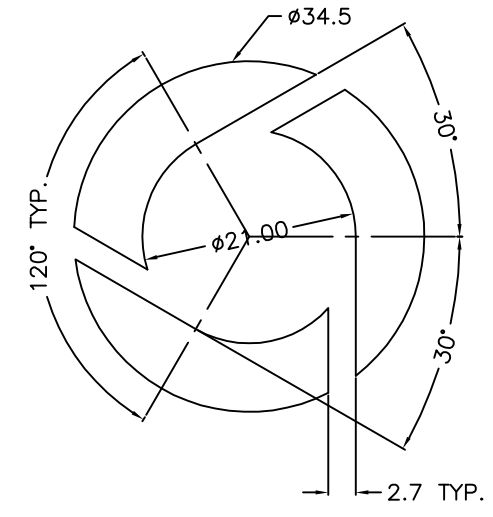
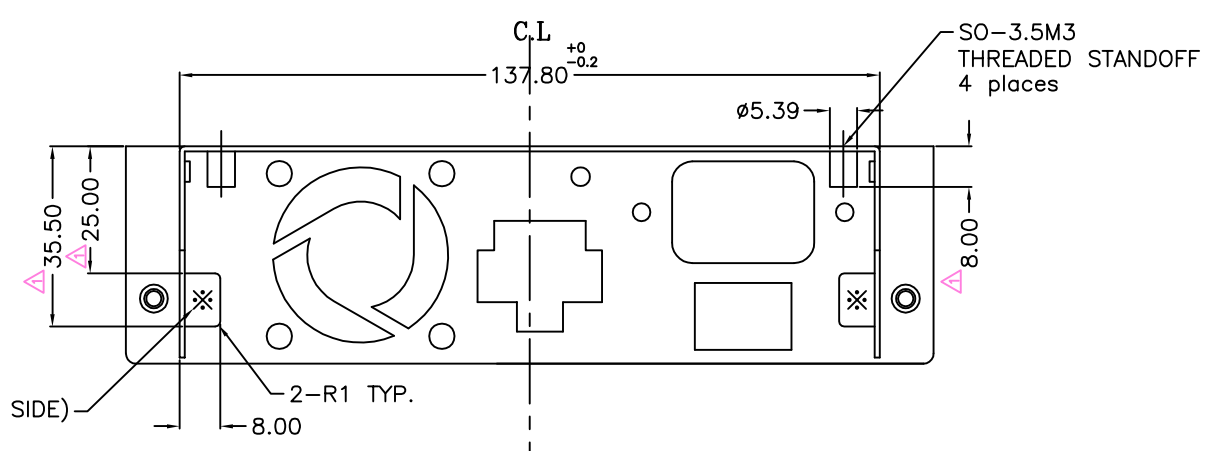


PCB419-C

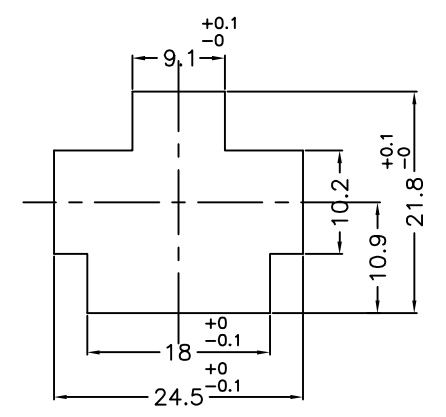
# Silkscreen Bottom



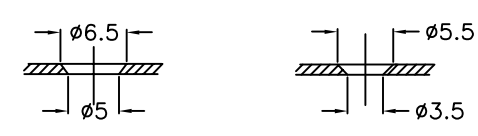
REV.	DESCRIPTION	DATE	REVISED BY
0	ORIGINAL	JAN.16,04'	Wu
1	MODIFY	NOV.26,04'	Wu



**DETAIL C**  
SCALE 2:1

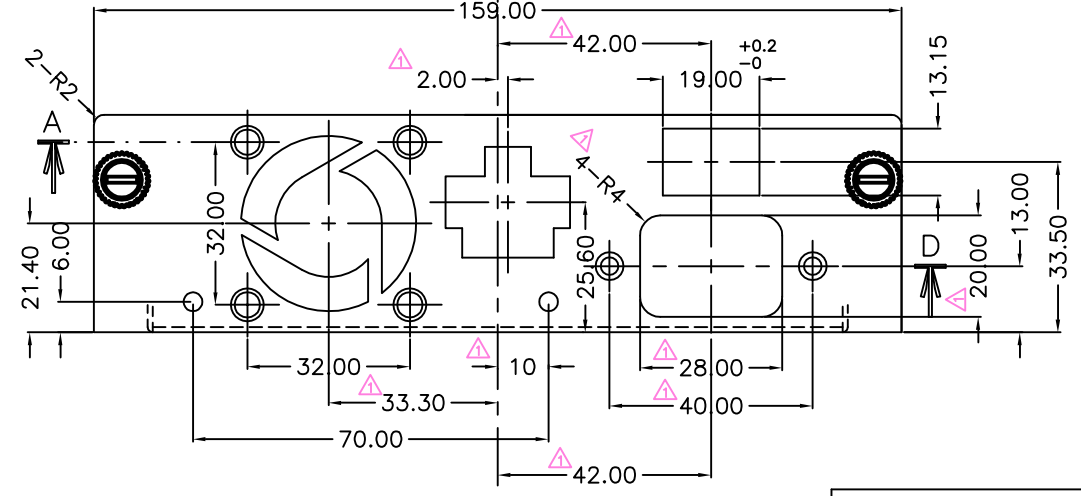
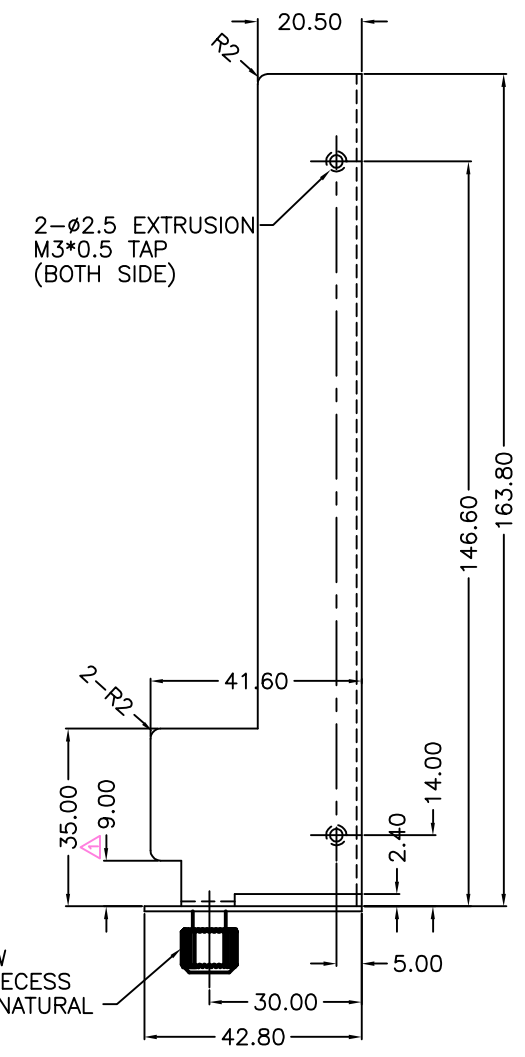
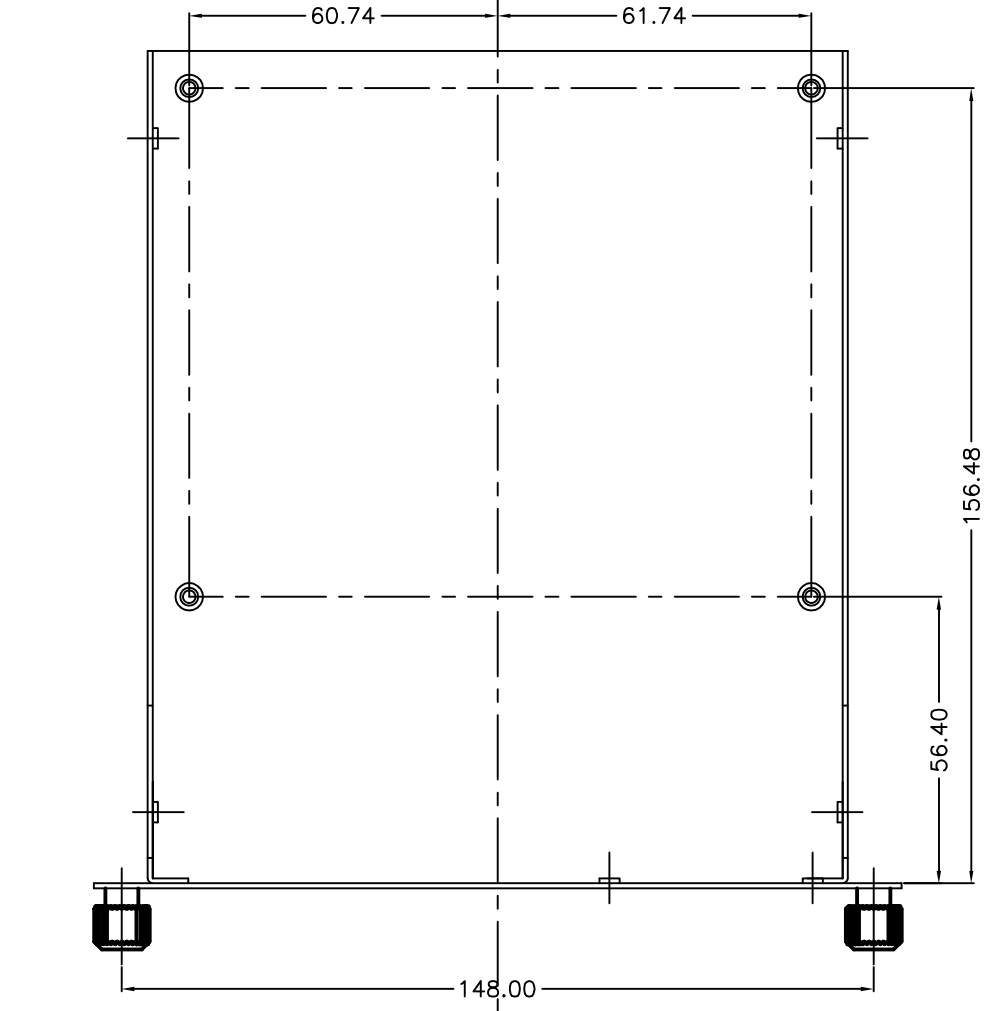


**DETAIL B**  
SCALE 2:1



**SECTION A-A**  
SCALE 2:1  
4 Places

**SECTION D-D**  
SCALE 2:1  
4 Places



CAPTIVE SCREW  
M3 SLOTTED RECESS  
KNOB FINISH: NATURAL

NOTES:  
1. REMOVES ALL BURRS AND SHARP EDGES.

MATERIAL	SPCC t=1.0	DWG. DATE	JAN.15,2004	A2	Q'TY	1
TREATMENT	NICKEL PLATING	DWG. NO.	ED-FDH-100-C		UNIT	mm
FINISHING		DWG. SHEET	1 OF 1			
ROUGHNESS		DWG. NAME	CHASSIS BK1020-0310		SCALE	
TOLERANCE	DIM. ± 0.2 ANGLE ± 0.3	TITLE				1 / 1
<b>YCL ELECTRONICS CO., LTD.</b> 卓智電子股份有限公司		DESCRIPTION:	AHR-004	APPROVED	CHECKED	DESIGNED
						<i>Wu</i>

P/N: 302EDFDH100C00

PrintDate: 2006/01/20

PrintTime: 13:37:02

卓智電子股份有限公司  
YCL ELECTRONIC CO., LTD

BOM211

BILL OF MATERIAL

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Parent-Parts No: AHR004A

Description: AHR-004A

Batch Qty: 1.00

Modified-Date: 2006/01/18

LastVersion: 3

Confirm: Yes

Specification:

Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
1	0010	1	0565400025	AHR-004A PCB零件加工組合		1.000000	PCS						2004/06/02	2019/12/31
2	0010	:2	0565400025-PK	AHR-004A 包裝組合		1.000000	PCS						2004/06/02	2019/12/31
3	0010	:/3	63051EDPK21500	外箱	ED-PK-215	0.041667	PCS						2004/06/02	2019/12/31
4	0020	:/3	64071EDPK284A0	隔板	ED-PK-284-A	0.083333	PCS						2004/06/02	2019/12/31
5	0030	:/3	64071EDPK292A0	隔板	ED-PK-292-A	2.000000	PCS						2004/06/02	2019/12/31
6	0040	:/3	64071EDPK292B0	蜂巢隔板	ED-PK-292-B	0.083333	PCS						2004/06/02	2019/12/31
7	0050	:/3	64071EDPK292C0	隔板	ED-PK-292-C	1.000000	PCS						2004/06/02	2019/12/31
8	0060	:/3	61122EDPK227E0	抗靜電塑膠袋	ED-PK-227-E	1.000000	PCS						2004/06/02	2019/12/31
9	0020	:2	0565400025-FA	AHR-004A PCB-Final Ass'y		1.000000	PCS						2004/06/02	2019/12/31
10	0003	:/3	90000000018880	標籤 ED-MBS-137 for AHR-004A	UL材質,黑字,反銀龍	1.000000	PCS						2004/06/04	2019/12/31
11	0005	:/3	30200000003060	矽膠導熱墊 P300A-25*50*1.5t	單背膠	4.000000	PCS						2004/06/02	2019/12/31
12	0013	:/3	23000000002340	線材加端子83m/m,60m/m 18AWG	UL1015 for AHR-002A	1.000000	PCS						2004/06/25	2019/12/31
13	0020	:/3	B44000001-0250	無鉛AC SOCKET SC-5-15A	FEMALE	1.000000	PCS						2004/06/02	2019/12/31
14	0025	:/3	28800000001090	AC SOCKET SC-8-1C male	SNAP-IN	1.000000	PCS						2005/10/12	2020/12/31
15	0030	:/3	27000000000090	SWITCH RF-1003-BB2-OH		1.000000	PCS						2004/06/02	2019/12/31
16	0040	:/3	23000000002190	線材 PVC1015#18 L=82.5mm綠滾黃	加端子 ED-RDN-024	1.000000	PCS						2004/06/02	2019/12/31
17	0048	:/3	28900000000090	DC FAN 4010M05C NF4		1.000000	PCS						2004/06/15	2019/12/31
18	0050	:/3	23000000002410	線材 ED-RDN-033		1.000000	PCS						2004/06/15	2019/12/31
19	0010	:/4	40000000006250	CORE A07T 23*14*7C		1.000000	PCS						2004/06/25	2019/12/31
20	0055	:/3	302EDRDM073000	螺絲 皿 M5*10 TAPPING-B 鍍銀	ED-RDM-073	4.000000	PCS				FOR FAN & CHASSIS		2004/06/21	2019/12/31
21	0060	:/3	302EDFDH100B00	CHASSIS COVER BK1020-0110	ED-FDH-100-B	1.000000	PCS						2004/06/15	2019/12/31
22	0070	:/3	302EDFDH100C00	CHASSIS BK1020-0310	ED-FDH-100-C	1.000000	PCS						2004/06/23	2019/12/31
23	0080	:/3	302EDFDH100D00	HANDLE D6.35/C70#6-32UNC	ED-FDH-100-D	1.000000	PCS						2004/06/23	2019/12/31
24	0090	:/3	302EDRDM084A00	SCREW BIND #6-32*6	ED-RDM-084-A	2.000000	PCS				FOR HANDLE & CHASSIS		2004/06/23	2019/12/31
25	0100	:/3	302EDRDM084B00	INTERNALLY ED-RDM-084-B M3.5	TOO THE D LOCK WAS	2.000000	PCS				FOR HANDLE & CHASSIS		2004/06/23	2019/12/31
26	0110	:/3	302EDRDM062A00	螺絲 BIND M3*6 SAE1018 鍍鋅	ED-RDM-062-A附GEAR	4.000000	PCS				FOR PCB*4		2004/06/23	2019/12/31
27	0120	:/3	302EDRDM072B00	螺絲 皿 M3*5 鍍銀	ED-RDM-072-B	4.000000	PCS				FOR CHASSIS & CHASSIS COVER		2004/06/23	2019/12/31
28	0130	:/3	0565400026	AHR-004 PCB零件加工組合		1.000000	PCS						2004/06/23	2019/12/31
29	0010	:/4	0565400026-FA	AHR-004 PCB-Final Ass'y		1.000000	PCS						2004/06/02	2019/12/31
30	0005	:/5	J00000149-0464	無鉛/毒標籤 產品版本 規格:R0B	10*5mm	1.000000	PCS					#3RDEC0520186	2004/06/24	2019/12/31
31	0008	:/5	90000000009670	標籤 Bar-Code 24*5mm	反銀龍上光銀底黑字	1.000000	PCS						2004/06/24	2019/12/31

Approved By: 林秀芬

Checked By: 蔡佳紘

Prepared By: 陳麗敏

吳珮勤

NO:RD-F-004-B

PrintDate: 2006/01/20

PrintTime: 13:37:02

卓智電子股份有限公司  
YCL ELECTRONIC CO., LTD

BOM211

BILL OF MATERIAL

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Parent-Parts No: AHR004A

Description: AHR-004A

Batch Qty: 1.00

Modified-Date: 2006/01/18

LastVersion: 3

Confirm: Yes

Specification:

Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
32	0010	:/:5	0565400026-MI	AHR-004 PCB-MI		1.000000	PCS						2004/06/02	2019/12/31
33	0010	:/:6	29100000000920	FUSE 陶瓷管51SG 5A 250V 5*20mm		1.000000	PCS				F1		2004/06/01	2019/12/31
34	0020	:/:6	29100000000090	FUSE CLIP SL002 5*20mm		2.000000	PCS				FOR F1		2004/06/01	2019/12/31
35	0030	:/:6	10400000003000	R熱敏 SCK-048 4 8A 15 P=8		1.000000	PCS				TH1		2004/06/01	2019/12/31
36	0040	:/:6	A14000008-1383	無鉛C電解 LG 220uF 30*30	450V ± 20%85 牛角	1.000000	PCS				C6		2001/01/01	2015/12/31
37	0041	:/:6	11031404228700	C 電解 LZG 2200uF 10V 12.5*20	± 20% 105	6.000000	PCS				C3 C23 C11 C13 C14 C15		2004/06/01	2019/12/31
38	0043	:/:6	A14000230-1381	無鉛C電解 SXE 220uF 8*20	35V ± 20% 105	1.000000	PCS				C41	#3RDEC0520186	2006/01/18	2021/12/31
39	0044	:/:6	A14000229-1381	無鉛C電解 SXE 120uF 5*11.5	6.3V ± 20% 105	1.000000	PCS				C45	#3RDEC0520186	2006/01/18	2021/12/31
40	0045	:/:6	11035094105700	C 電解 ST 1uF 50V 4*7	± 20% 105	1.000000	PCS			Y	C25		2004/06/01	2019/12/31
41	0045	:/:6	11035459105800	C 電解 MS7 1uF 50V 4*7 20%		1.000000	PCS			*			2004/06/01	2019/12/31
42	0046	:/:6	11032639226800	C 電解 SS 22uF 16V 4 *5	± 20% 85	1.000000	PCS			Y	C53	#3RDEC0520186	2004/06/01	2019/12/31
43	0046	:/:6	11032449226800	C 電解 MS 22uF 16V 4*5	± 20% 85	1.000000	PCS			*			2004/06/01	2019/12/31
44	0047	:/:6	11035319476800	C 電解 KME 47uF 50V 6.3*11		2.000000	PCS			Y	C44 C12	#3RDEC0520186	2004/06/01	2019/12/31
45	0047	:/:6	11034319476800	C 電解 KME 47uF 35V 6.3*11		2.000000	PCS			*			2004/06/01	2019/12/31
46	0047	:/:6	A14000032-0089	無鉛C電解 TK 47uF 6.3*11	50V ± 20% 105	2.000000	PCS			*			2001/01/01	2015/12/31
47	0048	:/:6	11033709106800	C 電解 UAX 10uF 25V 4*5	± 20% 105	2.000000	PCS				C46 C39		2004/06/01	2019/12/31
48	0049	:/:6	A14000207-0105	無鉛C電解 EMR 10uF 5*7	50V ± 20% 105	1.000000	PCS			Y	C49		2004/06/01	2019/12/31
49	0049	:/:6	A14000196-0105	無鉛C電解 E5R 10uF 6*5	50V ± 20% 105	1.000000	PCS			*		RD05047	2004/06/01	2019/12/31
50	0049	:/:6	A14000208-0105	無鉛C電解 EMR 10uF 5*7	50V ± 20% 105	1.000000	PCS			*		RD05048	2004/06/01	2019/12/31
51	0050	:/:6	1101B999222800	C 陶瓷 2200pF 250V 10 P=7.5	20% Y2	2.000000	PCS			Y	C5 C28		2004/06/01	2019/12/31
52	0050	:/:6	1101B251222700-243	C 陶瓷 5SF222MT252A77 2200pF	Y5V 250V ± 20% Y2	2.000000	PCS			*			2004/06/01	2019/12/31
53	0051	:/:6	1101J839473B00	C 陶瓷 Z5V 47000pF 500V	+80-20%	1.000000	PCS				C16		2004/06/01	2019/12/31
54	0052	:/:6	A12000002-0013	無鉛C 陶瓷 Z5U 1nF	1KV -20~+80%	2.000000	PCS			Y	C17 C32		2001/01/01	2015/12/31
55	0052	:/:6	1101K829102B00-243	C 陶瓷 Z5U 1000pF 1000V	+80-20%	2.000000	PCS			*			2004/06/01	2019/12/31
56	0053	:/:6	1101H999222700	C 陶瓷 5SE222MT402A97 2200pF	Y5U 250V ± 20% Y1	1.000000	PCS				C21		2004/06/02	2019/12/31
57	0060	:/:6	A01000247-ZZZZ	無鉛R 金氧膜(MOF) 2W 120K	± 5%	1.000000	PCS				R2		2001/01/01	2015/12/31
58	0070	:/:6	A01000314-ZZZZ	無鉛R 金氧膜(MOF) 2W 68K	± 5%	2.000000	PCS				R29 R31		2001/01/01	2015/12/31
59	0071	:/:6	A01000012-ZZZZ	無鉛R 金氧膜(MOF) 2W 100	± 5%	3.000000	PCS				R13 R68 R12		2001/01/01	2015/12/31
60	0072	:/:6	A01000286-ZZZZ	無鉛R 金氧膜(MOF) 2W 0.39	± 5%	1.000000	PCS				R4	#3RDEC0520186	2001/01/01	2015/12/31
61	0073	:/:6	10006100001600	R 金屬膜(MOF) 1/2W 100 5%		1.000000	PCS				R10		2004/06/01	2019/12/31
62	0120	:/:6	A01000087-ZZZZ	無鉛R CARBON 1/8W 22	± 5%	1.000000	PCS				R3		2001/01/01	2015/12/31

Approved By: 林秀芬

Checked By: 蔡佳紘

Prepared By: 陳麗敏

吳珮勤

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BILL OF MATERIAL

Parent-Parts No: AHR004A

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Specification:

Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
63	0121	:/:6	A01000070-ZZZZ	無鉛R CARBON 1/8W 100	± 5%	1.000000	PCS				R20		2001/01/01	2015/12/31
64	0130	:/:6	13001N41480000	DIODE FAST 1N4148 0.2A 75V	DO-35	2.000000	PCS			Y	D10 D5		2004/06/01	2019/12/31
65	0130	:/:6	13051N41480001	DIODE 1N4148 0.15A 75V Ifsm=1A	DO-35	2.000000	PCS			*			2004/06/01	2019/12/31
66	0130	:/:6	13051N41480002-023	DIODE 1N4148 0.15A 75V Ifsm=2A	DO-35	2.000000	PCS			*			2004/06/01	2019/12/31
67	0131	:/:6	1300UF5406G000	DIODE FAST UF5406G 600V 3A	DO-201AD	1.000000	PCS				D1		2004/06/01	2019/12/31
68	0140	:/:6	A31000127-1483	無鉛DIODE ZENER HZ24-3	1/2W DO-35	1.000000	PCS				ZD3	#3RDEC0520186	2004/06/01	2019/12/31
69	0150	:/:6	1302HZ6A300000	DIODE ZENER HZ6A3 5.6V 1/2W	DO-35	1.000000	PCS				ZD1		2004/06/01	2019/12/31
70	0160	:/:6	1300PS106R0000	DIODE FAST PS106R 1A 600V	DO-41	2.000000	PCS			Y	D2 D11		2004/06/01	2019/12/31
71	0160	:/:6	1300FR10500000	DIODE FAST FR105 1A 600V DO-41		2.000000	PCS			*			2004/06/01	2019/12/31
72	0230	:/:6	170KA393A000000	IC KA393A 2% 8-DIP		1.000000	PCS			Y	IC10		2004/06/01	2019/12/31
73	0230	:/:6	170KA3930000000	IC KA393 5% 8-DIP		1.000000	PCS			*			2004/06/01	2019/12/31
74	0230	:/:6	170LM393N000000	IC LM393N PDIP-8		1.000000	PCS			*			2004/06/01	2019/12/31
75	0231	:/:6	170TL431C000000	IC TL431C TO-92		3.000000	PCS			Y	IC3 IC5 IC7		2004/06/02	2019/12/31
76	0231	:/:6	170AN1431T0000	IC REGULAR AN1431T TO-92		3.000000	PCS			*			2004/06/02	2019/12/31
77	0231	:/:6	170UTC431000000	IC UTCTL431 4uA 2.55V	1%(Single) TO-92	3.000000	PCS			*			2004/06/02	2019/12/31
78	0231	:/:6	170UTC431000001	IC UTC431 4uA 2.55V 1%(Single)	TO-92	3.000000	PCS			*			2004/06/02	2019/12/31
79	0232	:/:6	19000000000130	光耦合 LTV-817-A RANK DIP 4PIN	CTR=80~160%	2.000000	PCS			Y	IC2 IC9		2004/06/02	2019/12/31
80	0232	:/:6	19000000000110	光耦合 KPC817A(K1010A)	CTR=80~160%	2.000000	PCS			*			2004/06/02	2019/12/31
81	0250	:/:6	1100D959684500	C金屬膜 CKX684K300S X1 0.68uF	300V ± 10% P=22.5	1.000000	PCS				C4		2004/06/01	2019/12/31
82	0260	:/:6	281000000003780	CONNECTOR 250PS-03 3PIN	P=2.5	1.000000	PCS				FAN1		2004/06/01	2019/12/31
83	0270	:/:6	281000000000550	CONNECTOR 8673-05N2,4 P=3.96	15.84*19.8	1.000000	PCS				CON1		2004/06/01	2019/12/31
84	0280	:/:6	287000000000430	端子 黃銅1*13.7	鍍全錫(光澤錫)3-5um	1.000000	PCS				FOR TP		2004/06/01	2019/12/31
85	0290	:/:6	140UTC8550S000	TRANS UTC8550S 20V 0.7A PNP	D-DANK TO-92	2.000000	PCS				IC6 Q7		2004/06/02	2019/12/31
86	0300	:/:6	1303MCR10000060	SCR MCR100-006 0.8A 400V TO-92		1.000000	PCS			Y	IC4		2004/06/02	2019/12/31
87	0300	:/:6	1303MCR10080000	SCR MCR100-8 0.8A 600V TO-92	直腳	1.000000	PCS			*			2004/06/02	2019/12/31
88	0310	:/:6	103000000000300	R VR 0.5W 1K 3/4圈 6.8*6.8		1.000000	PCS			Y	VR1		2004/06/02	2019/12/31
89	0310	:/:6	103000000000100	R VR 3362P-1-102 0.5W 1K	3/4圈 6.6*7 上面調整	1.000000	PCS			*			2004/06/02	2019/12/31
90	0320	:/:6	210000805000000	跳線 銅鍍錫0.8*5 腳長3.3~3.5mm		0.000001	PCS				FOR L2		2004/06/02	2019/12/31
91	0330	:/:6	211000805000000	跳線 銅鍍錫0.8 *5mm 10m		0.000001	PCS				FOR J1 J2 J3 J4 J5		2004/06/02	2019/12/31
92	0335	:/:6	210000810000000	跳線 銅鍍錫0.8*10		0.000001	PCS				J6 J7		2004/06/02	2019/12/31
93	0338	:/:6	60003AWG18L000	管 套管AWG 18L型 鐵氟龍		0.140000	M				FOR R4 R68 R12 R2 R29 R31 R13		2004/06/02	2019/12/31

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Specification:

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94	0340	:/:6	60010000000130	管 熱縮套管 F32 5/2.5		0.140000	M				FOR R4 R68 R12 R2 R29 R31 R13		2004/06/02	2019/12/31
95	0350	:/:6	60010000000120	管 熱縮套管 F32 4/2		0.010000	M				FOR R10		2004/06/02	2019/12/31
96	0360	:/:6	7654000063	L AHR-004-L1		1.000000	PCS				L1		2004/06/02	2019/12/31
97	0010	:/:7	40000000002210	CORE UU1620 NC-10H Ui=10000		2.000000	PCS			Y			2002/10/30	2017/12/31
98	0010	:/:7	400000000004740	CORE A10UU16L 16*10*6mm	Ui=10000± 30%	2.000000	PCS			*			2002/10/30	2017/12/31
99	0020	:/:7	30000041G-0027	無鉛漆包線 2UEW 0.60mm G		0.024500	KG						2001/01/01	2015/12/31
100	0030	:/:7	43000000000530	BOBBIN TF-1504(UU-15.7) 4PIN		1.000000	PCS						2002/10/30	2017/12/31
101	0050	:/:7	80000000000101	膠劑類 凡立水BC-359		0.000020	DR			Y			2002/10/30	2017/12/31
102	0050	:/:7	80000000000098	無溶劑型絕緣樹脂(凡立水) 468-2		0.000020	DR			*			2002/10/30	2017/12/31
103	0060	:/:7	80000000000102	膠劑類 稀釋劑T-100		0.000268	DR						2002/11/01	2017/12/31
104	0070	:/:7	43000000000480	夾片 UU-15.7使用		1.000000	PCS	N					2003/01/30	2018/12/31
105	0080	:/:7	900000000019120	標籤 字樣7654000063 14*4mm	ED-MBS-146 透明龍票	1.000000	PCS						2004/06/23	2019/12/31
106	0370	:/:6	7654000053	L AHR-002-L3		1.000000	PCS				L3		2004/06/02	2019/12/31
107	0010	:/:7	400000000004950	CORE T94-75-TAF200 AL=60nH	± 10% 23.9*14.2*7.9	1.000000	PCS						2003/10/03	2018/12/31
108	0020	:/:7	2002100450E00N	2UEW 0.45mm N		0.001720	KG						2003/10/03	2018/12/31
109	0030	:/:7	E1000003Y-1356	無鉛/毒 TAPE NO.1350F 5.5mm	5.5*0.051-0.076T黃色	0.000712	R						2001/01/01	2015/12/31
110	0380	:/:6	7654000062	TR AHR-004-T1		1.000000	PCS				T1		2004/06/02	2019/12/31
111	0010	:/:7	400000000004960	CORE MZ4 EERLW35/42	AL=2950nH± 25%	2.000000	PC			Y			2003/09/19	2018/12/31
112	0010	:/:7	400000000006310	CORE ER35W/21/11 NO GAP	Ui=2300+/-20%	2.000000	PCS			*			2003/09/19	2018/12/31
113	0020	:/:7	430000000000890	BOBBIN TF-3511(ERL35) 16PIN	1SEC PHENOLIC	1.000000	PCS						2003/09/19	2018/12/31
114	0030	:/:7	2002100450E00R	2UEW 0.45mm R		0.019317	KG						2003/09/23	2018/12/31
115	0040	:/:7	2002100260E00R	2UEW 0.26mm R		0.004004	KG						2003/09/23	2018/12/31
116	0050	:/:7	51000000000700	TAPE NO.44 3*0.228-0.304T (2L)		0.004889	R						2003/09/23	2018/12/31
117	0060	:/:7	E1000028Y-1356	無鉛/毒 TAPE NO.1350F 12.0mm	12.0*0.051-0.076T黃色	0.007273	R						2001/01/01	2015/12/31
118	0070	:/:7	51000000000760	TAPE NO.1350 22*0.051-0.076T		0.001364	R						2003/09/23	2018/12/31
119	0080	:/:7	E1000033Y-1356	無鉛/毒 TAPE NO.1350F 26.5mm	26.5*0.051-0.076T黃色	0.001864	R						2001/01/01	2015/12/31
120	0090	:/:7	60003AWG18L000	管 套管AWG 18L型 鐵氟龍		0.060000	M						2003/09/23	2018/12/31
121	0100	:/:7	60003AWG14L000	管 套管AWG 14L型 鐵氟龍		0.090000	M						2003/09/23	2018/12/31
122	0110	:/:7	80000000000101	膠劑類 凡立水BC-359		0.000020	DR			Y			2003/09/23	2018/12/31
123	0110	:/:7	80000000000098	無溶劑型絕緣樹脂(凡立水) 468-2		0.000020	DR			*			2003/09/23	2018/12/31
124	0120	:/:7	80000000000102	膠劑類 稀釋劑T-100		0.000268	DR						2003/09/23	2018/12/31

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Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
125	0130	:/:/790000000000053		標籤 字樣"DANGER" 25*10mm	黃色銅版紙黃底紅字	1.000000	PCS						2003/09/23	2018/12/31
126	0145	:/:/7900000000000158		標籤 字樣"HI-POT OK" 10	反銀龍銀底黑字	1.000000	PCS						2003/12/15	2018/12/31
127	0150	:/:/79000000000019110		標籤 字樣7654000062 14*4mm	ED-MBS-145 透明龍票	1.000000	PCS						2004/06/23	2019/12/31
128	0160	:/:/7302000000003650		銅箔片 CT19*197*0.2t		1.000000	PCS						2004/06/24	2019/12/31
129	0390	:/:/60565400026-D3D4Q2Q5	AHR-004 PCB-D3D4Q2Q3Q4Q5			1.000000	PCS						2004/06/02	2019/12/31
130	0010	:/:/71301KCQ30A0600		DIODE SCHOKY KCQ30A06 30A 60V	TO-3P	2.000000	PCS				D3 D4		2004/06/01	2019/12/31
131	0020	:/:/71601RL31030000		MOS IRL3103 30V 56A N TO-220		4.000000	PCS				Q2 Q3 Q4 Q5		2004/06/01	2019/12/31
132	0035	:/:/730200000000020		螺絲 丸 M3*8 五彩		4.000000	PCS				FOR Q2 Q3 Q4 Q5		2004/06/15	2019/12/31
133	0038	:/:/7302000000000610		螺絲 丸 M3*10 五彩		2.000000	PCS				FOR D3 D4		2004/06/23	2019/12/31
134	0040	:/:/7500000000000250		絕緣片 矽膠SLT0-3P 26*20*0.3t		2.000000	PCS				FOR D3 D4		2004/06/04	2019/12/31
135	0050	:/:/7500000000000240		絕緣片 矽膠SLT0-220 19*13*0.3t		4.000000	PCS				FOR Q2 Q3 Q4 Q5		2004/06/04	2019/12/31
136	0060	:/:/7302000000000060		彈簧華司 M3		6.000000	PCS				FOR D3D4Q2Q3Q4Q5		2004/06/04	2019/12/31
137	0070	:/:/7302000000000110		耐燃絕緣粒 BHTO-220		4.000000	PCS				FOR Q2Q3Q4Q5		2004/06/04	2019/12/31
138	0080	:/:/7301000000000560		散熱片 ED-FDH-100	AL t=3.00	1.000000	PCS				FOR D3 D4 Q2 Q3 Q4 Q5		2004/06/15	2019/12/31
139	0400	:/:/60565400026-DB1Q1	AHR-004 PCB-DB1Q1			1.000000	PCS						2004/06/02	2019/12/31
140	0010	:/:/71304GBU6J00000		橋式整流DIODE GBU6J 6A 600V		1.000000	PCS				DB1		2004/06/01	2019/12/31
141	0020	:/:/71602SK26070000		MOS 2SK2607 800V 9A TO-3P		1.000000	PCS				Q1		2004/06/01	2019/12/31
142	0030	:/:/7500000000000250		絕緣片 矽膠SLT0-3P 26*20*0.3t		2.000000	PCS				FOR DB1 Q1		2004/06/04	2019/12/31
143	0045	:/:/730200000000020		螺絲 丸 M3*8 五彩		1.000000	PCS				FOR DB1		2004/06/15	2019/12/31
144	0048	:/:/7302000000000610		螺絲 丸 M3*10 五彩		1.000000	PCS				FOR Q1		2004/06/23	2019/12/31
145	0050	:/:/7302000000000060		彈簧華司 M3		2.000000	PCS				FOR DB1 Q1		2004/06/04	2019/12/31
146	0060	:/:/7301000000000550		散熱片 ED-FDH-100-A	AL t=3.00	1.000000	PCS				FOR DB1 Q1		2004/06/15	2019/12/31
147	0410	:/:/60565400026-SMD	AHR-004 PCB-SMD			1.000000	PCS						2004/06/02	2019/12/31
148	0010	:/:/7A02000305-ZZZZ		無鉛 SMDR 1206 1M ± 5%		2.000000	PCS				R22 R23		2001/01/01	2015/12/31
149	0020	:/:/7A02000198-ZZZZ		無鉛SMDR 1206 0 ± 5%		1.000000	PCS				R60	#3RDEC0520186	2001/01/01	2015/12/31
150	0030	:/:/7A02000222-ZZZZ		無鉛SMDR 1206 1K ± 5%		2.000000	PCS				R5 R61		2001/01/01	2015/12/31
151	0043	:/:/7A02000371-ZZZZ		無鉛 SMDR 1206 39K ± 5%		1.000000	PCS				R43		2001/01/01	2015/12/31
152	0044	:/:/7A02000243-ZZZZ		無鉛 SMDR 1206 22 ± 5%		1.000000	PCS				R59		2006/01/20	2021/12/31
153	0045	:/:/7A02000226-ZZZZ		無鉛SMDR 1206 4.7 ± 5%		2.000000	PCS				R18 R66	#3RDEC0520186	2001/01/01	2015/12/31
154	0046	:/:/7A02000376-ZZZZ		無鉛 SMDR 1206 510 ± 5%		2.000000	PCS				R62*2		2001/01/01	2015/12/31
155	0047	:/:/7A02000199-0297		無鉛SMDR 1206 51 5%		1.000000	PCS				R70	#3RDEC0520186	2001/01/01	2015/12/31

Approved By: 林秀芬

Checked By: 蔡佳紘

Prepared By: 陳麗敏

吳珮勤

NO:RD-F-004-B

PrintDate: 2006/01/20

PrintTime: 13:37:02

卓智電子股份有限公司  
YCL ELECTRONIC CO., LTD

BOM211

BILL OF MATERIAL

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Parent-Parts No: AHR004A

Description: AHR-004A

Batch Qty: 1.00

Modified-Date: 2006/01/18

LastVersion: 3

Confirm: Yes

Specification:

Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
156	0048	:/:/7A02000228-ZZZZ	無鉛SMDR 1206 100 ± 5%			1.000000	PCS				R47		2001/01/01	2015/12/31
157	0049	:/:/7A02000364-ZZZZ	無鉛 SMDR 1206 30 ± 5%			2.000000	PCS				R48 R45		2001/01/01	2015/12/31
158	0050	:/:/7A02000106-ZZZZ	無鉛 SMDR 0805 1K ± 5%			5.000000	PCS				R26 R32 R21 R38 R30		2001/01/01	2015/12/31
159	0060	:/:/7A02000148-ZZZZ	無鉛 SMDR 0805 100 ± 5%			9.000000	PCS				R27 R17 R9 R36 R71 R72 R73 R35 R69	#3RDEC0520186	2001/01/01	2015/12/31
160	0070	:/:/7A02000256-ZZZZ	無鉛 SMDR 0805 33K ± 5%			3.000000	PCS				R16 R51 R24		2001/01/01	2015/12/31
161	0080	:/:/7A02000173-ZZZZ	無鉛 SMDR 0805 18K ± 5%			1.000000	PCS				R7		2001/01/01	2015/12/31
162	0090	:/:/7A02000115-ZZZZ	無鉛 SMDR 0805 1.8K ± 5%			1.000000	PCS				R6		2001/01/01	2015/12/31
163	0100	:/:/7A02000133-ZZZZ	無鉛 SMDR 0805 4.7K ± 5%			3.000000	PCS				R28 R14 R34		2001/01/01	2015/12/31
164	0110	:/:/7A02000138-ZZZZ	無鉛 SMDR 0805 5.6K ± 5%			1.000000	PCS				R37		2001/01/01	2015/12/31
165	0120	:/:/7A02000297-ZZZZ	無鉛 SMDR 0805 82K ± 5%			2.000000	PCS				R55 R50		2001/01/01	2015/12/31
166	0130	:/:/7A02000275-ZZZZ	無鉛 SMDR 0805 510 ± 5%			1.000000	PCS				R11		2001/01/01	2015/12/31
167	0140	:/:/7A02000124-ZZZZ	無鉛 SMDR 0805 2.7K ± 5%			1.000000	PCS				R19		2001/01/01	2015/12/31
168	0150	:/:/7A02000121-ZZZZ	無鉛 SMDR 0805 2.4K ± 5%			1.000000	PCS				R15		2001/01/01	2015/12/31
169	0153	:/:/7A02000218-ZZZZ	無鉛 SMDR 0805 300K ± 5%			1.000000	PCS				R40		2001/01/01	2015/12/31
170	0155	:/:/7A02000164-ZZZZ	無鉛 SMDR 0805 150 ± 5%			1.000000	PCS				R54		2001/01/01	2015/12/31
171	0156	:/:/7A02000161-ZZZZ	無鉛 SMDR 0805 120K ± 5%			1.000000	PCS				R42		2001/01/01	2015/12/31
172	0157	:/:/7A02000151-ZZZZ	無鉛 SMDR 0805 10K ± 5%			1.000000	PCS		Y		R44		2001/01/01	2015/12/31
173	0157	:/:/710104100003608	SMDR 0805 10K 5%			1.000000	PCS		*				2004/06/01	2019/12/31
174	0158	:/:/7A02000182-ZZZZ	無鉛 SMDR 0805 22 ± 5%			1.000000	PCS				R49		2001/01/01	2015/12/31
175	0159	:/:/7A02000155-ZZZZ	無鉛 SMDR 0805 10.5K ± 1%			1.000000	PCS				R52		2001/01/01	2015/12/31
176	0160	:/:/71312RLZ56B0000	SMD ZENER RLZ5.6B 5.6V 0.5W	LL-34		1.000000	PCS				ZD5		2004/06/01	2019/12/31
177	0170	:/:/71312RLZ18C0000	SMD ZENER RLZ18C 18V 0.4W			1.000000	PCS				ZD7		2004/06/01	2019/12/31
178	0180	:/:/7A17000041-ZZZZ	無鉛SMDC 0805 NPO 101J 100 pF	50V ± 5%		1.000000	PCS				C20		2001/01/01	2015/12/31
179	0190	:/:/7A17000222-ZZZZ	無鉛SMDC 0805 NPO 152J 1.5nF	50V ± 5%		1.000000	PCS				C9		2001/01/01	2015/12/31
180	0200	:/:/7A17000296-ZZZZ	無鉛SMDC 0805 X7R 102K 1nF	50V ± 10%		2.000000	PCS				C10 C35		2001/01/01	2015/12/31
181	0210	:/:/7A17000303-ZZZZ	無鉛SMDC 0805 X7R 224J 220nF	50V ± 5%		1.000000	PCS		Y		C22		2001/01/01	2015/12/31
182	0210	:/:/7A17000304-ZZZZ	無鉛SMDC 0805 X7R 224K 220nF	50V ± 10%		1.000000	PCS		*				2001/01/01	2015/12/31
183	0220	:/:/7A17000089-ZZZZ	無鉛SMDC 0805 X7R 104K 100nF	50V ± 10%		8.000000	PCS				C8 C26 C1 C18 C19 C24 C33 C34	#3RDEC0520186	2001/01/01	2015/12/31
184	0225	:/:/7A17000401-ZZZZ	無鉛SMDC 1206 Y5V 475Z 4.7uF	25V -20~+80%		1.000000	PCS				C30	#3RDEC0520186	2006/01/18	2021/12/31
185	0230	:/:/7A17000011-ZZZZ	無鉛SMDC 0805 Y5V 105Z 1uF	25V -20~+80%		1.000000	PCS		Y		C2		2001/01/01	2015/12/31
186	0230	:/:/711173789105B08	SMDC 0805 Y5V 1 uf 25V +80-20%			1.000000	PCS		*				2004/06/01	2019/12/31

Approved By: 林秀芬

Checked By: 蔡佳紘

Prepared By: 陳麗敏 吳珮勤

NO:RD-F-004-B

PrintDate: 2006/01/20

PrintTime: 13:37:02

Parent-Parts No: AHR004A

Description: AHR-004A  
Specification:

Batch Qty: 1.00

Modified-Date: 2006/01/18

LastVersion: 3

Confirm: Yes

卓智電子股份有限公司  
YCL ELECTRONIC CO., LTD

BOM211

BILL OF MATERIAL

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Seq	Item	Lvl	Child-Parts Number	Child-Parts Description I	Description II	Usage Qty	UM	Sp	LOT	Msrc	Location	ECN Number	Valid-Date	Invalid-Date
187	0230	:/:/7A	17000012-ZZZZ	無鉛SMDC 0805 Z5U 105M 1uF	25V ± 20%	1.000000	PCS	<input type="checkbox"/>		*			2001/01/01	2015/12/31
188	0240	:/:/71	11175749104512	SMDC 1206 X7R 100000pf 50V 10%		1.000000	PCS	<input type="checkbox"/>		Y	C7		2004/06/01	2019/12/31
189	0240	:/:/7A	17000006-ZZZZ	無鉛SMDC 1206 X7R 104K 100nF	50V ± 10%	1.000000	PCS	<input type="checkbox"/>		*			2001/01/01	2015/12/31
190	0250	:/:/71	11173679105B12	SMDC 1206 TMK 1000000 pf 25V	+80-20%	1.000000	PCS	<input type="checkbox"/>		Y	C31		2004/06/01	2019/12/31
191	0250	:/:/7A	17000008-ZZZZ	無鉛SMDC 1206 Y5V 105Z 1uF	25V -20~+80%	1.000000	PCS	<input type="checkbox"/>		*			2001/01/01	2015/12/31
192	0260	:/:/71	171LTC4350CGN0	SMDIC LTC-4350CGN 16PIN		1.000000	PCS	<input type="checkbox"/>			IC8		2004/06/02	2019/12/31
193	0270	:/:/71	171UC3843BV000	IC UC3843BVD1R2 SO-8		1.000000	PCS	<input type="checkbox"/>			IC1		2004/06/02	2019/12/31
194	0280	:/:/7G	0200419C-0127	無鉛 PCB 419-C 鍍金	FR4 雙面板(132.4*120	1.000000	PCS	<input type="checkbox"/>				#3RDEC0520186	2004/06/04	2019/12/31

Approved By: 林秀芬

Checked By: 蔡佳紘

Prepared By: 陳麗敏 吳珮勤

NO:RD-F-004-B

Customer :

Model : AHR-004A

S/N : S0550000006 | P/N : | Date Code : 0550

Date : 01/05/2006 | Time : 08:34:48

Testing Time : 48.22 Sec | Result : PASS

TestItem Description	CH	Min	Max	Value	Result
FU LOAD[115V @ 17.00A] (100%)	1	4.900	5.100	5.018	PASS
FU LOAD[230V @ 17.00A] (100%)	1	4.900	5.100	5.018	PASS
NO LOAD[115V @ 0.00A] (0%)	1	4.900	5.200	5.068	PASS
NO LOAD[230V @ 0.00A] (0%)	1	4.900	5.200	5.066	PASS
OVP[115V @ 3.40A] (20%)	1	4.900	5.200	5.054	PASS
OVP[230V @ 3.40A] (20%)	1	4.900	5.200	5.054	PASS
Line Regulation [100V]	1	4.800	5.100	5.018	PASS
Line Regulation [275V]	1	4.800	5.100	5.018	PASS
Line Regulation [100V ~ 275V] (%)	1	0.000	1.000	0.000%	PASS
5V LOAD REG[115V / 17.00A] 100% (V)	1	4.800	5.100	5.020	PASS
5V LOAD REG[115V / 8.50A] 50% (V)	1	4.800	5.100	5.042	PASS
5V LOAD REG[115V] (%)	1	0.000	2.000	0.436%	PASS
5V LOAD REG[230V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[230V / 8.50A] 50% (V)	1	4.800	5.100	5.042	PASS
5V LOAD REG[230V] (%)	1	0.000	2.000	0.674%	PASS
Input Power [115V] (W)	--	0.000	135.000	128.600	PASS
Efficiency [115V] (%)	--	63.000	100.000	66.315%	PASS
5V O.L.P [115V / 110% ~ 250%] (%)	1	110.000	200.000	137.958%	PASS
5V O.L.P [230V / 110% ~ 250%] (%)	1	110.000	200.000	142.529%	PASS
Short Circuit [115V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [115V] (W)	--	0.000	100.000	1.900	PASS
Short Circuit [230V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [230V] (W)	--	0.000	100.000	5.300	PASS
Drop Out (V)	--	0.000	85.000	65.050	PASS

Ripple/noise [115V/ 17.00A] 100% 40 mVPP

Ripple/noise [230V/ 17.00A] 100% 40 mVPP

Customer :

Model : AHR-004A

S/N : S0550000043 | P/N : | Date Code : 0550

Date : 01/05/2006 | Time : 08:41:20

Testing Time : 44.54 Sec | Result : PASS

TestItem Description	CH	Min	Max	Value	Result
FU LOAD[115V @ 17.00A] (100%)	1	4.900	5.100	5.008	PASS
FU LOAD[230V @ 17.00A] (100%)	1	4.900	5.100	5.008	PASS
NO LOAD[115V @ 0.00A] (0%)	1	4.900	5.200	5.072	PASS
NO LOAD[230V @ 0.00A] (0%)	1	4.900	5.200	5.072	PASS
OVP[115V @ 3.40A] (20%)	1	4.900	5.200	5.046	PASS
OVP[230V @ 3.40A] (20%)	1	4.900	5.200	5.044	PASS
Line Regulation [100V]	1	4.800	5.100	5.006	PASS
Line Regulation [275V]	1	4.800	5.100	5.008	PASS
Line Regulation [100V ~ 275V] (%)	1	0.000	1.000	0.040%	PASS
5V LOAD REG[115V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[115V / 8.50A] 50% (V)	1	4.800	5.100	5.032	PASS
5V LOAD REG[115V] (%)	1	0.000	2.000	0.477%	PASS
5V LOAD REG[230V / 17.00A] 100% (V)	1	4.800	5.100	5.008	PASS
5V LOAD REG[230V / 8.50A] 50% (V)	1	4.800	5.100	5.030	PASS
5V LOAD REG[230V] (%)	1	0.000	2.000	0.437%	PASS
Input Power [115V] (W)	--	0.000	135.000	129.600	PASS
Efficiency [115V] (%)	--	63.000	100.000	65.665%	PASS
5V O.L.P [115V / 110% ~ 250%] (%)	1	110.000	200.000	138.022%	PASS
5V O.L.P [230V / 110% ~ 250%] (%)	1	110.000	200.000	143.219%	PASS
Short Circuit [115V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [115V] (W)	--	0.000	100.000	21.800	PASS
Short Circuit [230V] (V)	1	0.000	1.000	0.000	PASS
Short Circuit [230V] (W)	--	0.000	100.000	4.900	PASS
Drop Out (V)	--	0.000	85.000	65.050	PASS

Ripple/noise [115V/ 17.00A] 100% 40 mVPP

Ripple/noise [230V/ 17.00A] 100% 40 mVPP



卓智電子股份有限公司

YCL ELECTRONICS CO., LTD.

Tel.: +886-(0)7-745-8587 Fax.: +886-(0)7-745-9120

830 高雄縣鳳山市鳳仁路 95 號 <http://www.ycl.com.tw/>

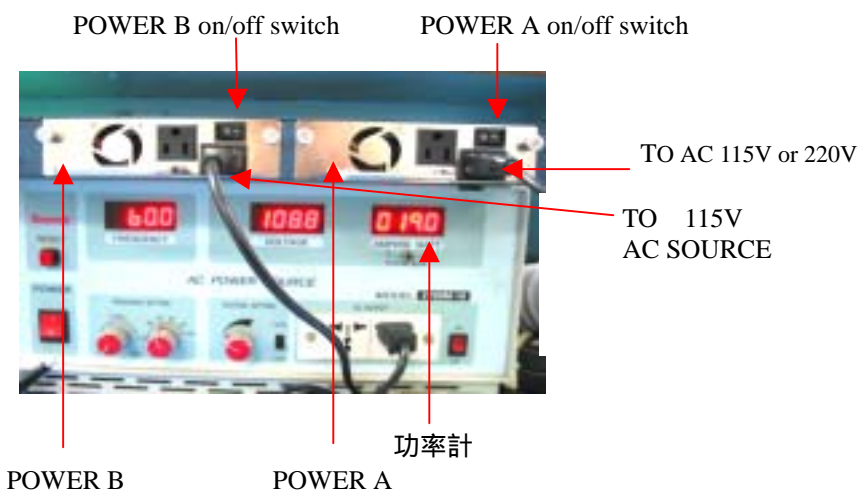
No.95, Feng Jen Road, Feng Shan City 830, Kaohsiung County, Taiwan



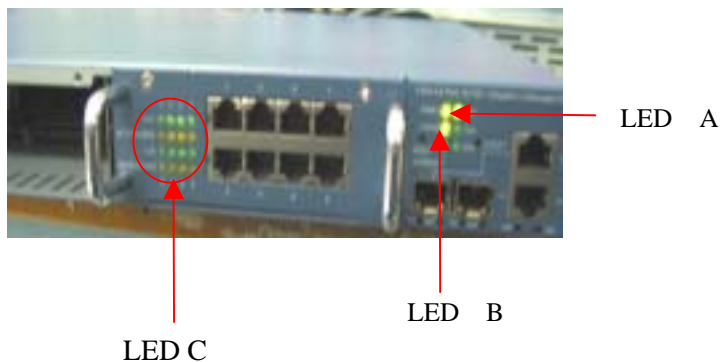
## AHR-004A 電源瞬斷測試 (客戶提供測試實體)

### POWER ON /OFF 瞬斷測試：

1. POWER A ON、POWER B ON/OFF 5 次，LED A、LED B、LED C 不可同時瞬間閃爍。
2. POWER B ON、POWER A ON/OFF 5 次，LED A、LED B、LED C 不可同時瞬間閃爍。
3. POWER A、POWER B 對調位置，重複 步驟 1、步驟 2。



測試實體背面



Head Office (KAOHSIUNG)

TEL: 886-7-7458587

FAX: 886-7-7459120

E-MAIL: [Sales@ycl.com.tw](mailto:Sales@ycl.com.tw)