

Emax

Emax Manufacturing Co., Ltd

承認書

CUSTOMER **精 才**

PART NO.

SAMPLE NO. **PLCD0514202**

ITEM **DC TO AC INVERTER**

DATE **2010/04/12**



總公司：連達科技股份有限公司

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TEED-QR-73704 (A)

規格書記錄表

客戶名稱:
CUSTOMER.
客戶料號:
PART NO.

精 才

產品編號:
SAMPLE NO.
生產編號:
PRODUCTION NO.

PLCD0514202

項次	變更單號碼 (ECN)	版本 版次	內 容	頁次	制 表	核 准	客戶確認	日 期
1		1.0	新資料		研發部 黃 思	工程師 黃漢勤		2010/04/12
2								
3								
4								
5								
6								
7								
8						連達電子 100412 研發部		
9								
10								
11								

Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	1	of	4
Model No:	PLCD0514202	Date:	2010/04/12		

1. ENVIRONMENT CHARACTERISTICS:

1-1. All Conditions are at 25°C Ambient unless otherwise specified

1-2. Operating Temperature 0°C ~~~~+50°C

1-3. Storage Temperature -25°C ~~~~~+70°C

1-4. Humidity Operating 95%

1-5. Humidity Storage 95%

2. CONNECTOR PIN ASSIGNMENT:

Input : CN1
Model : LM302-005-TF-2
Supplier : UNICORN

Output : CN2
Model : LM302-C2-TF-2
Supplier : UNICORN

Pin	Symbol
1	Vin
2	GND
3	Brt ON/OFF
4	Brt ADJ
5	GND

Pin	Symbol
1	HV
2	HV
3	NC
4	Return

TEST INSTRUMENT:

1. OSCILLOSCOPE : TDS380 DIGITAL REAL-TIME OSCILLOSCOPE
 2. HIGH VOLTAGE PROBE : TEKTRONIX P5100(1:100)
 3. CURRENT PROBE AMPLIFIER : TEKTRONIX AM503B
 4. CURRENT PROBE : TEKTRONIX A6302
 5. DC POWER SUPPLY : GW GPS-3060D
- MULTIMETER : FLUKE 45 DUAL DISPLAY



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Approved	Checked	Design	Draw

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Part Name:	LCD PANEL DC TO AC INVERTER	Page:	2	of	4
Model No:	PLCD0514202	Date:	2010/04/12		

3. SCOPE

3-1 This document defines the requirements for the CCFL inverter of the TFT-LCD panel.
 This product is compatible with **FOR IMES 12.1" Dual Lamp Panel**
Model:L121X35TL01

4. ELECTRICAL CHARACTERISTICS

4-1 INPUT Brt. ADJ=0V.

PARAMETER	SYMBOL	MIN.	NOM.	MAX.	UNIT	REMARK
INPUT VOLTAGE	V _{in}	10.8	12	13.2	V	
INPUT CURRENT	I _{in}	640	760	880	mA	RL=100KΩ*2 V _{in} = 12 V
LAMP FREQUENCY	FL1,2	36	41	46	KHz	Vrmt=0V
OUTPUT CURRENT	I _{out} (1+2)	11.0	12.0	13.0	mA	Vrmt=0V
OPEN OUTPUT VOLTAGE	V _s 1,2	1400	1550	1700	Vrms	
OUTPUR VOLTAGE	V _{out} 1,2	565	615	665	Vrms	Vrmt=0V

4-2 INPUT Brt. ADJ=5V..

PARAMETER	SYMBOL	MIN.	NOM.	MAX.	UNIT	REMARK
INPUT VOLTAGE	V _{in}	10.8	12	13.2	V	
INPUT CURRENT	I _{in}	100	150	210	mA	RL=100 KΩ*2 V _{in} = 12 V
LAMP FREQUENCY	FL 1,2	36	41	46	KHz	Vrmt=5V
OUTPUT CURRENT	I _{out} (1+2)	4.2	5.2	6.2	mA	Vrmt=5V
LAMP VOLTAGE	V _{out} 1,2	215	265	315	Vrms	Vrmt=5V

NOTE: All Conditions are at 25°C Ambient unless otherwise specifi



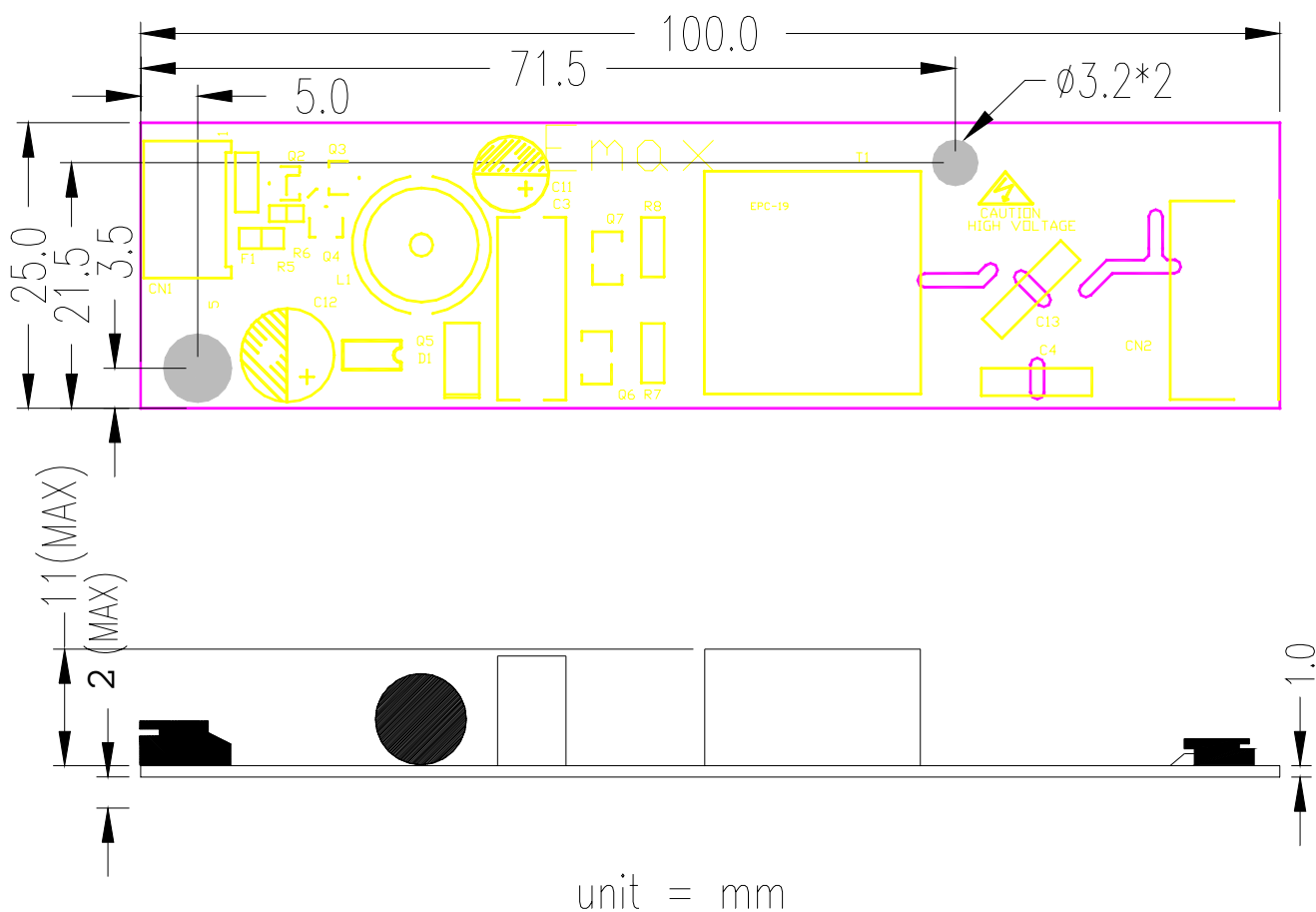
Emax 連達電子(吳江)有限公司

Approved	Cheched	Design	Draw
工程師 黃漢勤	工程師 劉勇	研發部 戴鴻松	研發部 黃思

Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	3	of	4
Model No:	PLCD0514202	Date:	2010/04/12		

5.Mechanism Dimensions

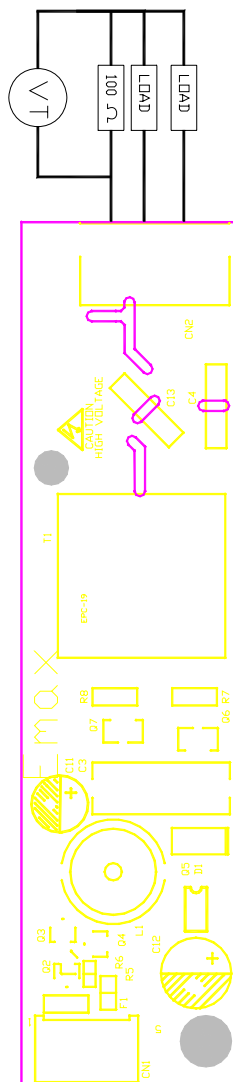


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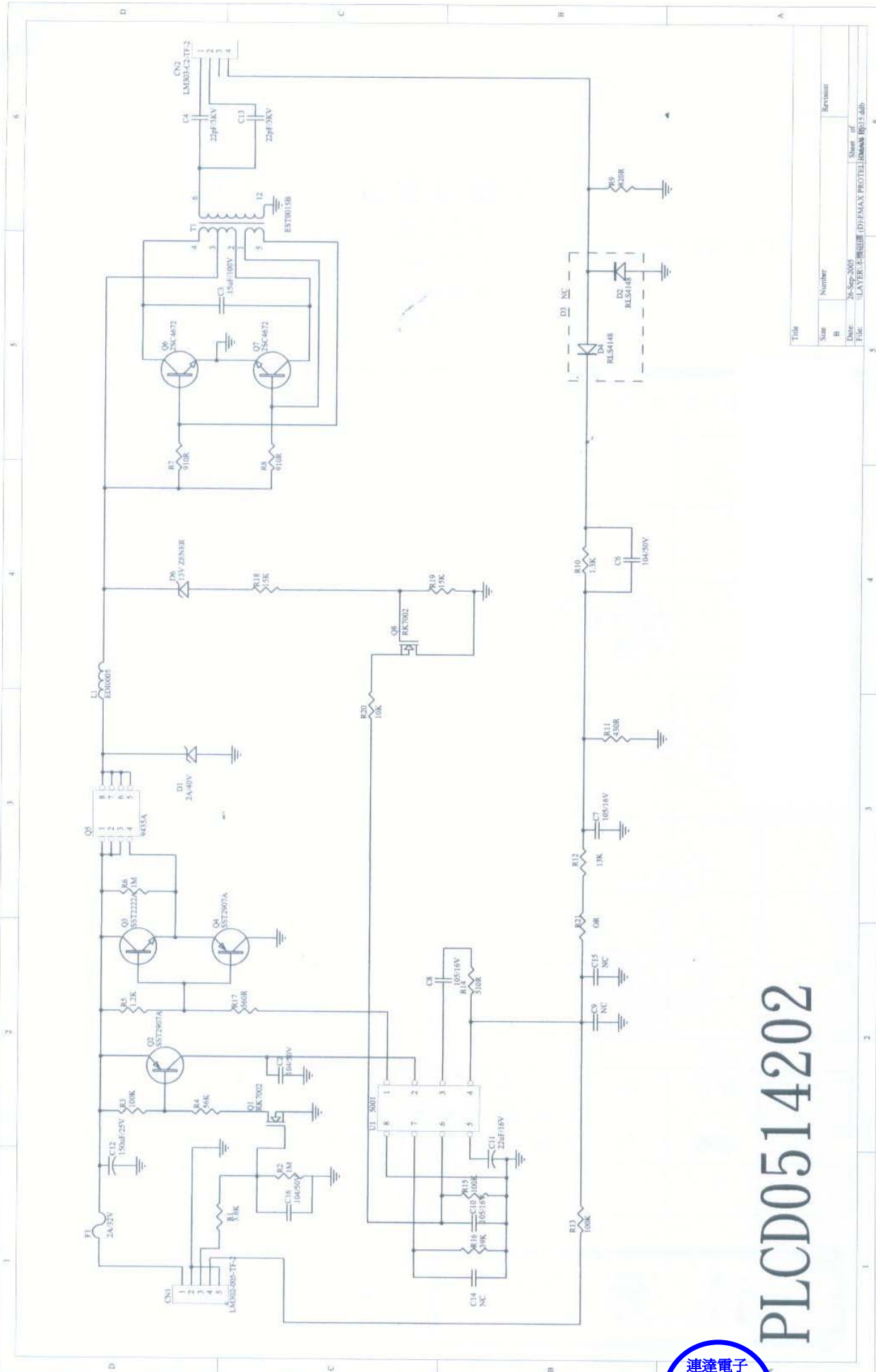
Part Name:	LCD PANEL DC TO AC INVERTER	Page:	4	of	4
Model No:	PLCD0514202	Date:	2010/04/12		

6.Test Circuit:



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Approved	Checked	Design	Draw
工程師 黃漢勤	工程師 劉勇	研發部 戴鴻松	研發部 黃思



Title	Size	Number	Revision
	B		
Date:	26-Sep-2005		
File:	\\LAVERL\本機組\PLC\PLC0514202\PLC0514202.dwg		

PLCD0514202



Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	1	of	2
Model No:	PLCD0514202	Date:	2010/04/12		

位 置	規 格	數 量	MAKER	UL No.
R21	0Ω,06035	1	CAIZHI,TMTEC	
R2,R6	1MΩ,0603,±5%	1	CAIZHI,TMTEC	
R20	10KΩ,0603,±5%	1	CAIZHI,TMTEC	
R12	13KΩ,0603,±1%	1	CAIZHI,TMTEC	
R18,R19	15KΩ,0603,±1%	2	CAIZHI,TMTEC	
R16	39KΩ,0603,±1%	1	CAIZHI,TMTEC	
R4	56KΩ,0805,±5%	1	CAIZHI,TMTEC	
R13,R3,R15	100KΩ,0603,±1%	3	CAIZHI,TMTEC	
R5	1.2KΩ,0805,±5%	1	CAIZHI,TMTEC	
R10	1.3KΩ,0603,±1%	1	CAIZHI,TMTEC	
R1	3.6KΩ,0603,±5%	1	CAIZHI,TMTEC	
R11	430Ω,0603,±1%	1	CAIZHI,TMTEC	
R14	510Ω,0603,±5%	1	CAIZHI,TMTEC	
R17	560Ω,1206,±5%	1	CAIZHI,TMTEC	
R9	820Ω,0805,±1%	1	CAIZHI,TMTEC	
R7,R8	910Ω,1206,±5%	2	CAIZHI,TMTEC	
C12	150uF/25V,LZ,DIP 8*7mm,pitch3.5	1	HEREMI	
C3	0.15uF/100V,RSB,DIP,4.5*10	1	JINGWAN	
C13,C4	22pF/3KV,DIP	2	TDK,WEILONG DOW CORNING	
C11	22uF/16V,DIP,4*7	1	FUZHUYU,HERMEI,CapXon	
C2,C6,C16	104/50V,0603,X7R	3	YAGEO,SAMSUNG, WALSIN,TDK	
C7,C8,C10	105/16V,0603,X5R	3	YAGEO,SAMSUNG, WALSIN,HESHENTAN	
Q5	APM9435,SO-8/SDM9435A/AM9 435P	1	ANPEC,SMC,Analog Power	
D1	SS24orSK24	1	ZOWIE,RS	
D6	RLZ13V(SMD) or GLZ 13B	13	ROHM,PANJIT	
D2,D4	RLS4148 or LL4148	2	ROHM,PANJIT	
Q3	SST2222A or PMBT2222AorMMBT2222ALT1	1	ROHM,PHILIPS,ON Semiconductor	
Q2,Q4	SST2907A or PMBT2907A	2	ROHM,PHILIPS	
Q6,Q7	KTD1642Cor2SC4672	2	ROHM, KEC	
MYLAR	MY116,55*83*0.125mm	1	JIAXIANG,ZHONGKEN	E199019 E74359



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Specification

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Model No:	PLCD0514202	Date:	2010/04/12		

位 置	規格	數量	MAKER	UL No.
Bar Code	10*30(BA049)	1	EMAX	
LABEL	QC PASS,8mm 圓型	1	EMAX	
Q1,Q8	RKM7002 or 2N7002KorBSH112	2	ROHM, KEC,PHILIPS	
U1	FP5001	1	Feeling	
T1	EST0015B	1	EMAX	E143312 E214423 E54705 E229667 E165111
L1	EDI0005 點矽膠	1	EMAX	
F1	2A/32V,SMD /2A/63V,SMD,1206	1	Bussmann(SAVE),AEM	E306920 E232989
CN2	SM04(4.0)B-BHS-1-TB,3PIN Cut off	1	UNICORN,JINSHI,ACES	E202182 E302341 E205655
CN1	5Pin,Pitch2.0mm,DIP,90 度	1	UNICORN,JINSHI,ACES	E202182 E302341 E205655
PCB	PLCD0514202 CPC0451R0080C	1	DIFEIDA, CENTURY	E213009 E189010



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