

CUSTOMER: _____

Specification

Part Name:	LCD PANEL DC TO AC INVERTER	Page:	2	of	2
Model No:	PLCD0318604H	Date:	SEP / 18 / 2003		

3. SCOPE

3-1 This document defines the requirements for the CCFL inverter of the TFT -LCD panel.

This product. is compatible with AU CHIMEI 20" Six Lamp Panel .

4. ELECTRICAL CHARACTERISTICS

4-1 INPUT Brt. ADJ=0.0V.

PARAMETER	SYMBOL	MIN.	NOM.	MAX.	UNIT	REMARK
INPUT VOLTAGE	V _{in}	14.0	15.0	16.0	V	
INPUT CURRENT	I _{in}	1450	1850	2250	mA	RL=100 K Ω [*6 V _{in} = 15 V
LAMP FREQUENCY	FL(1,2,3)	44	49	54	KHz	Vrmt=0.0V
	FL(4,5,6)	44	49	54		
OUTPUT CURRENT	I _{out} (1,2,3)	5.8	6.4	7.0	mA	Vrmt=0.0V
	I _{out} (4,5,6)	5.8	6.4	7.0		
OUTPUT VOLTAGE	V _{out} 1,2,3	-----	640	-----	Vrms	Vrmt=0.0V
	V _{out} 4,5,6	-----	640	-----		
OPEN OUTPUT VOLTAGE	V _s 1,2,3	-----	1600	-----	Vrms	Vin=15V
	V _s 4,5,6	-----	1600	-----		

4-2 INPUT Brt. ADJ=5.0V. .

PARAMETER	SYMBOL	MIN.	NOM.	MAX.	UNIT	REMARK
INPUT VOLTAGE	V _{in}	14.0	15.0	16.0	V	
INPUT CURRENT	I _{in}	430	650	870	mA	RL=100 K Ω [*6 V _{in} = 15 V
LAMP FREQUENCY	FL(1,2,3)	44	49	54	KHz	Vrmt=5.0V
	FL(4,5,6)	44	49	54		
OUTPUT CURRENT	I _{out} (1,2,3)	3.0	3.6	4.2	mA	Vrmt=5.0V
	I _{out} (4,5,6)	3.0	3.6	4.2		
OUTPUT VOLTAGE	V _{out} 1,2,3	-----	360	-----	Vrms	Vrmt=5.0V
	V _{out} 4,5,6	-----	360	-----		

NOTE: All Conditions are at 25 $^{\circ}$ C Ambient unless otherwise specified

‡ s,,F< S “ ¥f ‡ >>/%¥q ‡ s,,(S df),q/l “ ¥f ‡ >>/%¥q ‡ s,,F“ F†)< S “ ¥f ‡ >>/%¥q	Approved	Checked	Design	Draw

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fP , m	‡ W	... ¶ q	MAKER	UL No.
PT1,PT2,PT3,PT4,PT5,PT6	EST0114(UI-15,SMD)	6	EMAX	
Q4,Q5,Q6,Q7	or 4532M	4	Advanced Power, TOSHIBA,SMC	
U1	OZ960G	1	O2	
D6,D10,D15,D17,D21,D26, D31	RLS4148	7	ROHM,YING,TS,MMC	
D5,D7,D9,D11,D13,D14, D16,D18,D22,D24,D25, D27,D29,D30,D32,D34, D35,D36,	BAV99 or DAN217	18	ROHM,YING,TS,MMC	
CN1	2001J-08-RT(90¢X) S8B-PH-KL(JST) (90¢X)	1	ORICH,JST	E201214 E60389
CN2,CN3,CN4,CN6,CN7, CN8	SM02B-BHSS-1-TB(JST) W01-01100-0228(FCN) 87210-0208(ACES)	6	JST,FCN,ACES	E60389 E204211 E205655
F1	429005(Littelfuse) 3216FF-5A(Bussmann) 1206FA5A(SkyGate) KE50(Daito) BA100-5A(SAVE)	1	Littelfuse,BUSSMANN ,SKY GATE ,Daito ,SAVE	E10480(N) E19180(N) E195833 E59783 E146895
D1,D2,D3	RLZ 5.6V(SMD)	3	ROHM,YING,TS,MMC	
Q1	SST2907A	1	ROHM,AUK	
Q3,Q8,Q10,Q11,Q12,Q13, Q14,Q15,Q16,Q17	RK7002	10	ROHM,AUK	
Q2	SST2222A	1	Samsung,ROHM	
C14,C15,C68,C69	150uF/25V(LZ)	4	SANYO,HER MEL,TEAPO	
C6	103/50V,0603	1	TDK,PHILIPS,Holy Stone	
C1,C2,C8,C11,C20,C32,C29, C36,C42,C48,C54,C60	104/50V,0603	12	TDK,PHILIPS,Holy Stone	
C5,C16	105/16V,0603	2	TDK,PHILIPS,Holy Stone	
C24,C34,C40,C47,C52,C58	472/50V,0603(X7R)	6	TDK,PHILIPS,Holy Stone	
C28,C35,C41,C46,C53,C59	223/50V,0603(X7R)	6	TDK,PHILIPS,Holy Stone	
C13	220pF/50V,0603(COG)	1	TDK,PHILIPS,Holy Stone	
C7	152/50V,0603(X7R)	1	TDK,PHILIPS,Holy Stone	
C10	392/50V,0603(COG)	1	TDK,PHILIPS,Holy Stone	

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C9,C12	473/50V,0603(X7R)	2	TDK,PHILIPS,Holy Stone	
C4,C61	474/16V,0603(Y5V)	2	TDK,PHILIPS,Holy Stone	
C19,C3,C30,C31,C37,C38, C43,C44,C49,C50,C55,C56	4.7uF/16V,1206(X7R)	12	TDK,PHILIPS,Holy Stone	
C23,C33,C39,C45,C51,C57	18pF/3KV,DIP	6	TDK, Holy Stone, Johanson	
R16,R23,R24,R35,R37,R43, R45,R47	1M Ω [,0603	8	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R1	360K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R12	390K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R8,R49,R50	100K Ω [,0603	3	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R10	15K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R34,R31,R39,R40,R41,R42 R54,R55,R56,R57,R58,R59	0 Ω [,0603	12	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R11	110K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R9,R14,R4	10K Ω [,0603	3	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R2	3.6K Ω [,0603	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R5	160K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R15,R36,R38,R44,R46,R48	470 Ω [,0603, $\pm 1\%$	6	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R6	43K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R3	1K Ω [,1206	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R17	56K Ω [,0805	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R7	100K Ω [,0805	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R52	75K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
R13	68K Ω [,0603, $\pm 1\%$	1	YAGEO,SYNTON-TECH, LIKET,EVER OHMS,TA -I	
PCB	CPC1351R6119B PLCD0318604	1	CHIAN YOU,HANT GIST, YUMMON,TONG JIANG, CENTURY,WAN ZHENG ,EISO,TUNG TA	E112804(S) E177794 E168218(S) E201363 E189010(M) E211670 E162061(S) E162886

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