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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

TFT LCD Approval Specification FUNAI MODELNO. TLCD10CME011 MODEL NO.:V315B6-C02

RoHS Verified

Customer: <u>FUNAI</u>

Approved by: _____

Note:

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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

- Contents -

	Tevision		3
Hand	lling Precautions		4
Gene	eral Description		5
2.1	Characteristics		5
Cell	Outline		6
3.1	PAD Design		7
3.2	OLB PAD Assignment		9
3.3	Operating condition		12
Stor	age Conditions		13
Pack	king Method		14
5.1 L/	ABEL		14
5.2 P/	ACKING SPECIFICATIONS		14
5.3 P/	ACKING METHOD		15
Othe	rs		17
	Hand Gene 2.1 3.1 3.2 3.3 Stor: Pack 5.1 LA 5.2 PA 5.3 PA	Cell Outline 3.1 PAD Design 3.2 OLB PAD Assignment	Handling Precautions General Description 2.1 Characteristics

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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

Version2.0

Record of Revision

Version	Date	Page (New)	Section	Description
Ver 2.0	Oct. 7,'09	All	All	Approval Specification was first issued.



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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

Version2.0

1.0 Handling Precautions

- The LCD panel is made of glass and may break or crack if dropped on a hard surface. It is necessary to handle it carefully.
- Since front polarizer is easily damaged, pay attention not to scratch it.
- When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth gently.
- Do not touch the front screen surface when assembling.

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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

Version2.0

2.0 General Description

This specification is applied to the Type V315B6 TFT/LCD cell. This cell is designed for a display unit for TV application.

The screen format is intended to support the WXGA (1366(H) x 768(V)) screen

2.1 Characteristics

CHARACTERISTICS ITEMS	SPECIFICATIONS				
Screen Diagonal [in]	31.5				
Pixels [lines]	1366×768				
Active Area [mm]	697.6845 (H) x 392.256 (V)				
Sub -Pixel Pitch [mm]	0.17025(H) x 0.51075 (V)				
Pixel Arrangement	RGB vertical stripe				
Weight [g]	TYP. 1125g				
Physical Size [mm]	716(W) x 410.8(H) x 2.00(D) Typ.				
Display Mode	Transmissive mode / Normally black				
Contrast Ratio	(3000:1) Typ.				
	(Typical value measured at CMO's module)				
Glass thickness (Array/CF) [mm]	0.7 / 0.7				
Viewing Angle(CR>20)	+88/-88(H),+88/-88(V) Typ. (CR≥20)				
0	(Typical value measured at CMO's module)				
Color White	Color Filter				
	R=(0.642, 0.332)				
	G=(0.277, 0.598)				
	B=(0.145, 0.066)				
	W=(0.285, 0.293)				
	*White color is calibrated value measured at Color				
	Filter by CMO's module				
Cell Transparency [%]	(5.8)%Typ.				
	(Typical value measured at CMO's module)				
Polarizer (CF side)	Wide View, Anti-glare coating,				
	709.7 (W) x 405 (H). Hardness: 3H				
Polarizer (TFT side)	Wide View, 709.7 (W) x 405 (H)				

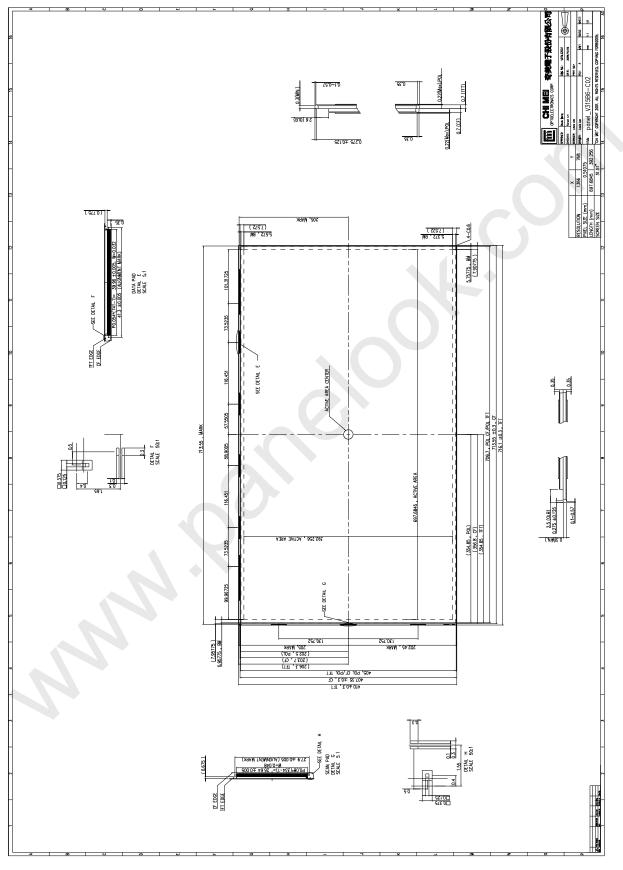


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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02 Approval

3.0 Cell Outline

The following figure shows cell outline.



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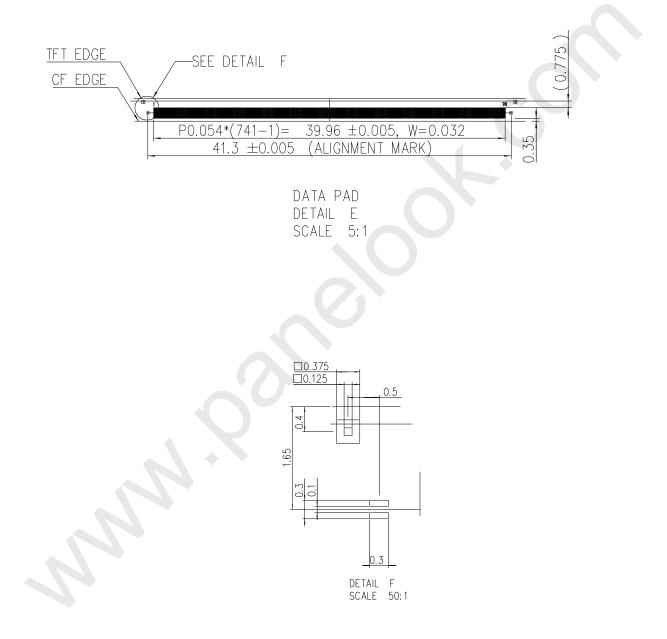
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3.1 PAD Design

The following figure shows Data & Scan pad design.

[Data Pad] Unit [mm]

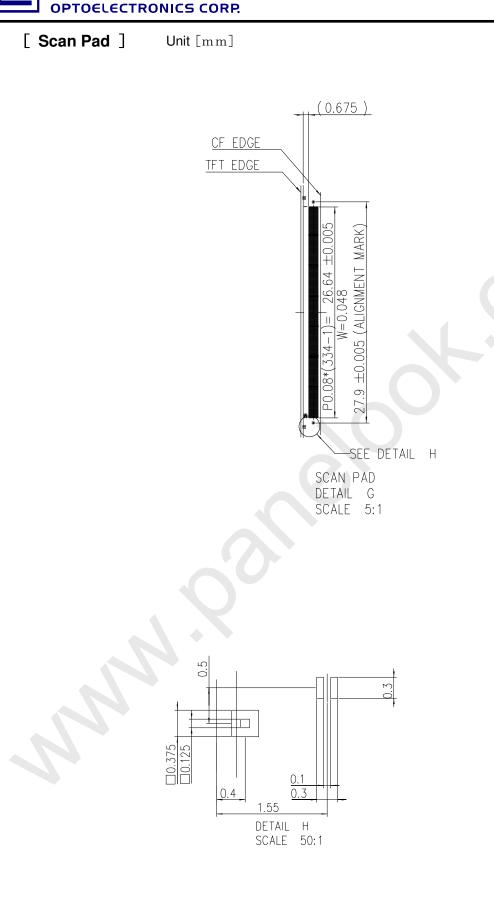


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肩库:全球液晶屏交易中心



Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02 Approval



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CMO Model No.: V315B6 -C02



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3.2 OLB PAD Assignment

GATE

3	SCAN1		8		SCAN2			SCAN3	
PIN	CELL	INPUT	1	PIN	CELL	INPUT	PIN	CELL	INPUT
1	ATST	TEST		1	ATST	TEST	1	ATST	TEST
2	ATST	TEST		2	ATST	TEST		ATST	TEST
		NC	-	_	RP1	NC	8 8	RP1	NC
	RP2	NC	-		RP2	NC			NC
5		VCOM	1	5	VCOM	VCOM			VCOM
	VCOM		-				X X		
6	VCOM	VCOM		6	VCOM	VCOM	6		VCOM
7	STVR	STVR	3	7	STVR	STVR	7		STVR
8	LR	LR	2	8	LR	LR	8	LR	LR
9	XAO	XAO		9	XAO	XAO	9	XAO	XAO
10	OE	OE		10	OE	OE	10	OE	OE
11	CPV	CPV		11	CPV	CPV	11	CPV	CPV
12	STV1	STV1	1	12	STV1	STV1	12	and and the first state of the	STV1
13	MODE	MODE	1	_	MODE	MODE	2 5	MODE	MODE
			-				8 8 1000		
14	VSS	VSS		14	VSS	VSS	14		VSS
15	VSS	VSS	3	15	VSS	VSS	15		VSS
16	VDD	VDD	2	16	VDD	VDD	16	VDD	VDD
17	VDD	VDD	5	17	VDD	VDD	17	VDD	VDD
18	VGL	VGL		18	VGL	VGL	18	VGL	VGL
19	VGL	VGL	-	19	VGL	VGL	19	VGL	VGL
20	VGL	VGL	1	20	VGL	VGL	20		VGL
20	VGL	VGL	2	21	VGL	VGL	21		VGL
			-						
22	DUMMY	NC		22	DUMMY	NC	22		NC
23	VGH	VGH		23	VGH	VGH	23		VGH
24	VGH	VGH		24	VGH	VGH	24		VGH
25	VGH	VGH		25	VGH	VGH	25		VGH
26	VGH	VGH		26	VGH	VGH	26	VGH	VGH
27	DUMMY	NC		27	DUMMY	NC	27		NC
28	VEE	VEE	-	28	VEE	VEE	28	100000	VEE
29		VEE	1	29	VEE	VEE	29		VEE
	VEE		-				X X		
30	VEE	VEE	-	30	VEE	VEE	30	- KOATDAT	VEE
31	DUMMY	NC	1	31	DUMMY	NC	31	DUMMY	NC
32	SCAN_0_NC	NC	5	32	SCAN_0_NC	NC	32	SCAN_0_NC	NC
33	SCAN 1_NC	NC		33	SCAN 1 NC	NC	33	SCAN 1 NC	NC
34	SCAN_2_NC	NC		34	SCAN_2_NC	NC	34	SCAN 2 NC	NC
35	SCAN 3 NC	NC		35	SCAN 3 NC	NC	35		NC
36	SCAN 4 NC	NC	1	36	SCAN 4 NC	NC	36		NC NC
			1						0.0.7
37	SCAN_5_NC	NC	-	37	SCAN_5_NC	NC	37		NC
38	SCAN_6_NC	NC	_	38	SCAN_6_NC	NC	38		NC
39	SCAN_7_NC	NC		39	SCAN_7_NC	NC	- 39		NC
40	SCAN_8	S1	8	40	SCAN_8	S1	40		S1
41	SCAN_9	S2	3	41	SCAN_9	S2	41	SCAN_9	S2
			Ē	-	222		5 5 201	- 215	
294	SCAN_262	S255	- H	294	SCAN_262	S255	294	SCAN_262	S255
				295					
295	SCAN_263	S256		_		S256	295		S256
296	SCAN_264_NC	NC		296	SCAN_264_NC	NC	296		NC
297	SCAN_265_NC	NC	11	297	SCAN_265_NC	NC	297	SCAN_265_NC	NC
298	SCAN_266_NC	NC		298	SCAN_266_NC	NC	298	SCAN_266_NC	NC
299	SCAN 267 NC	NC		299	SCAN 267 NC	NC	299	SCAN 267 NC	NC.
300	SCAN 268 NC	NC	1.1	300	SCAN 268 NC	NC	300	SCAN 268 NC	NC
301	SCAN 269 NC	NC	_	301	SCAN 269 NC	NC	301	SCAN 269 NC	NC
302							302		
	SCAN_270_NC	NC	- 12	302	SCAN_270_NC	NC	2 3		NC
303	SCAN_271_NC	NC	1	303	SCAN_271_NC	NC	303		NC
304		NC			DUMMY	NC	304		NC
305	VEE	VEE	0	305	VEE	VEE	305	DUMMY	NC
306	VEE	VEE		306	VEE	VEE	306	DUMMY	NC
307	VEE	VEE		307	VEE	VEE		DUMMY	NC
	DUMMY	NC			DUMMY	NC	8 8	DUMMY	NC
	VGH	VGH			VGH	VGH		DUMMY	NC
	VGH	VGH			VGH	VGH		DUMMY	NC
							× ×		
	VGH	VGH			VGH	VGH	S 2 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	DUMMY	NC
	VGH	VGH	-		VGH	VGH	(c)	DUMMY	NC
	DUMMY	NC			DUMMY	NC		DUMMY	NC
314	VGL	VGL		314	VGL	VGL	314	Date_Gate	VGL
315		VGL		315	VGL	VGL		Date_Gate	VGL
	VGL				VGL	VGL		Date_Gate	VGL
		VGL			1000 C				VGL
316	VGL	VGL		317	VGL	VGI	317		
316 317	VGL VGL	VGL			VGL	VGL		Date_Gate	
316 317 318	VGL VGL VDD	VGL VDD		318	VDD	VDD	318	DUMMY	NC
316 317 318 319	VGL VGL VDD VDD	VGL VDD VDD		318 319	VDD VDD	VDD VDD	318 319		NC NC
316 317 318 319 320	VGL VGL VDD VDD VSS	VGL VDD VDD VSS		318 319 320	VDD VDD VSS	VDD VDD VSS	318 319 320	DUMMY DUMMY DUMMY	NC NC NC
316 317 318 319 320 321	VGL VGL VDD VDD VSS VSS	VGL VDD VDD		318 319 320 321	VDD VDD VSS VSS	VDD VDD VSS VSS	318 319 320 321	DUMMY DUMMY DUMMY DUMMY	NC NC NC NC
316 317 318 319 320 321	VGL VGL VDD VDD VSS	VGL VDD VDD VSS		318 319 320 321	VDD VDD VSS	VDD VDD VSS	318 319 320 321	DUMMY DUMMY DUMMY	NC NC NC
316 317 318 319 320 321 322	VGL VGL VDD VDD VSS VSS	VGL VDD VDD VSS VSS		318 319 320 321 322	VDD VDD VSS VSS	VDD VDD VSS VSS	318 319 320 321 322	DUMMY DUMMY DUMMY DUMMY	NC NC NC NC
316 317 318 319 320 321 322 323	VGL VGL VDD VDD VSS VSS MODE STV2	VGL VDD VDD VSS VSS MODE STV2		318 319 320 321 322 323	VDD VDD VSS VSS MODE STV2	VDD VDD VSS VSS MODE STV2	318 319 320 321 322 323	DUMMY DUMMY DUMMY DUMMY DUMMY STV2	NC NC NC NC STVR
316 317 318 319 320 321 322 323 323 324	VGL VGL VDD VDD VSS VSS MODE STV2 CPV	VGL VDD VDD VSS VSS MODE STV2 CPV		318 319 320 321 322 323 323	VDD VDD VSS VSS MODE STV2 CPV	VDD VDD VSS VSS MODE STV2 CPV	318 319 320 321 322 323 323 324	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY	NC NC NC NC STVR NC
316 317 318 319 320 321 322 323 324 324 325	VGL VGL VDD VDD VSS VSS MODE STV2 CPV OE	VGL VDD VSS VSS MODE STV2 CPV OE		318 319 320 321 322 323 324 325	VDD VDD VSS VSS MODE STV2 CPV OE	VDD VDD VSS VSS MODE STV2 CPV OE	318 319 320 321 322 323 324 324 324	DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY	NC NC NC NC STVR NC NC
316 317 318 319 320 321 322 323 324 325 326	VGL VGL VDD VDD VSS VSS VSS STV2 CPV OE XAO	VGL VDD VSS VSS MODE STV2 CPV OE XAO		318 319 320 321 322 323 324 325 326	VDD VDD VSS VSS MODE STV2 CPV OE XAO	VDD VDD VSS VSS MODE STV2 CPV OE XAO	318 319 320 321 322 323 324 324 325 326	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY	NC NC NC NC STVR NC NC NC
316 317 318 319 320 321 322 323 324 325 326 327	VGL VGL VDD VSS VSS MODE STV2 CPV OE XAO LR	VGL VDD VSS VSS MODE STV2 CPV OE XAO LR		318 319 320 321 322 323 324 325 326 327	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR	VDD VSS VSS MODE STV2 CPV OE XAO LR	318 319 320 321 322 323 324 325 326 326 327	DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC NC NC STVR NC NC
316 317 318 319 320 321 322 323 324 325 326 327	VGL VGL VDD VDD VSS VSS VSS STV2 CPV OE XAO	VGL VDD VSS VSS MODE STV2 CPV OE XAO		318 319 320 321 322 323 324 325 326 327	VDD VDD VSS VSS MODE STV2 CPV OE XAO	VDD VDD VSS VSS MODE STV2 CPV OE XAO	318 319 320 321 322 323 324 326 326 327 327 328	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY DUMMY STVR	NC NC NC NC STVR NC NC NC
316 317 318 319 320 321 322 323 324 325 326 327 328	VGL VGL VDD VSS VSS MODE STV2 CPV OE XAO LR	VGL VDD VSS VSS MODE STV2 CPV OE XAO LR		318 319 320 321 322 323 324 325 326 327 328	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR	VDD VSS VSS MODE STV2 CPV OE XAO LR	318 319 320 321 322 323 324 326 326 327 327 328	DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY DUMMY	NC NC NC NC NC NC NC NC NC NC
316 317 318 319 320 321 322 323 324 325 326 327 328 329	VGL VGD VDD VDD VSS STV2 CPV OE XAO LR STVR STVR VCOM	VGL VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM		318 319 320 321 322 323 324 325 326 326 327 328 329	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM	VDD VDD VSS MODE STV2 CPV OE XAO LR STVR VCOM	318 319 320 321 322 323 324 325 326 327 328 329 329 329 329 329 329 329 329 329	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY DUMMY STVR VCOM	NC NC NC NC NC NC NC NC NC STVR VCOM
316 317 318 320 321 322 323 324 325 326 327 328 329 330	VGL VGD VDD VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM	VGL VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM		318 319 320 321 322 323 324 325 326 327 328 329 330	VDD VDD VSS WODE STV2 CPV OE XAO LR STVR VCOM	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM	318 319 320 321 322 323 324 325 326 327 328 329 320 329 320 320 320 320 320 320 320 320 320 320	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY STVR VCOM	NC NC NC NC STVR NC NC NC STVR VCOM
316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331	VGL VGL VDD VDD VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM RP2	VGL VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC		318 319 320 321 322 323 324 325 326 327 328 327 328 329 330 331	VDD VDD VSS VSS STV2 CPV OE XAO LR STVR VCOM VCOM RP2	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC	318 319 320 321 322 323 324 325 326 327 328 327 328 329 320 329 320 320 329 320 320 320 320 320 320 320 320 320 320	DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY DUMMY STVR STVR VCOM VCOM RP2	NC NC NC NC NC NC NC NC NC STVR VCOM NC
316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332	VGL VGL VDD VDD VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM VCOM VCOM RP2 RP1	VGL VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC		318 319 320 321 322 323 324 325 326 327 328 329 330 331 331	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM RP2 RP1	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC NC	318 319 320 321 322 322 322 322 322 322 322 322 322	DUMMY DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY DUMMY STVR VCOM VCOM VCOM RP2 RP1	NC NC NC NC NC NC NC NC NC STVR VCOM NC NC
316 317 318 320 321 322 323 324 325 326 327 328 329 330 331 332 333	VGL VGL VDD VDD VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM RP2	VGL VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC		318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333	VDD VDD VSS VSS STV2 CPV OE XAO LR STVR VCOM VCOM RP2	VDD VDD VSS VSS MODE STV2 CPV OE XAO LR STVR VCOM VCOM NC	318 319 320 321 322 322 324 325 326 326 327 326 329 330 331 332 333	DUMMY DUMMY DUMMY DUMMY STV2 DUMMY DUMMY DUMMY DUMMY STVR STVR VCOM VCOM RP2	NC NC NC NC NC NC NC NC NC STVR VCOM NC

9

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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

SIGNAL

	DATA1		8	DATA2		3	DATA3	
PIN	CELL	INPUT	PIN	CELL	INPUT	PIN	CELL	INPUT
	ATST	TEST	3	ATST	TEST	1		TEST
2	ATST	TEST	2	ATST	TEST	2	ATST	TEST
3	RP1	NC	3	DUMMY	NC	3	DUMMY	NC
4	RP2	NC	4	DUMMY	NC	4	DUMMY	NC
5	VCOM	VCOM	5	VCOM	VCOM	5	VCOM	VCOM
6	VCOM	VCOM	6	VCOM	VCOM	6	VCOM	VCOM
7	STVR	STVR		DUMMY	NC		DUMMY	NC
	LR	LR		DUMMY	NC NC	8	271.72012100/2.3	NC
110	XAO	XAO	X	DUMMY	INC I	100 - 1000 -	DUMMY	NC
			2					
10	OE	OE	1	DUMMY	NC			NC
11	CPV	CPV	11	DUMMY	NC	11		NC
-	STV1	STV1	2	DUMMY	NC		DUMMY	NC
	MODE	MODE	X	DUMMY	NC		DUMMY	NC
14	VSS	VSS	14	DUMMY	NC	14	DUMMY	NC
15	VSS	VSS	15	DUMMY	NC	15	DUMMY	NC
16	VDD	VDD	16	DUMMY	NC	16	DUMMY	NC
17	VDD	VDD	17	DUMMY	NC	17	DUMMY	NC
18	DUMMY	NC	2 100000	DUMMY	NC		DUMMY	NC
0.50	VGL	VGL	1	DUMMY	NC		DUMMY	NC
	VGL	VGL	1 10 10 10		NC		DUMMY	NC
	1.	1000 2012 1000	X				T0. T1. 1041 (2), 63	
21	VGL	VGL	21	DUMMY	NC	21	DUMMY	NC
	DUMMY	NC		DUMMY	NC		DUMMY	NC
23	VGH	VGH	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	DUMMY	NC		DUMMY	NC
24	VGH	VGH	24	DUMMY	NC	10 TE 10	DUMMY	NC
25	VGH	VGH	25	DUMMY	NC	25	DUMMY	NC
26	DUMMY.	NC	26	DUMMY	NC	26	DUMMY	NC
27	VEE	VEE	1 100 100	DUMMY	NC		DUMMY	NC
28	VEE	VEE		DUMMY	NC	28	al a construction of the second s	NC
	VEE	VEE	2 22 22	DUMMY	NC NC		DUMMY	NC
		NC	10000		NC		DUMMY	NC
- 2121		ACC / 5						0.00
0.0	VGL	VGL	191210	DUMMY	NC	12-52	DUMMY	NC
32	VGL	VGL		DUMMY	NC		DUMMY	NC
33	DUMMY	NC	33	DUMMY	NC	33	DUMMY	NC
34	VCOM	VCOM	34	VCOM	VCOM	34	VCOM	VCOM
35	VCOM	VCOM	35	VCOM	VCOM	35	VCOM	VCOM
36	DUMMY	NC	36	DUMMY	NC	36	DUMMY	NC
37	VCOM	VCOM	37	VCOM	VCOM	37		VCOM
	VCOM	VCOM	1	VCOM	VCOM		VCOM	VCOM
	REP	NC	X	REP	NC	30		NC
	100755.55	000.0	-				1000788.00 V	000.0
	DUMMY	NC		DUMMY	NC	<u> </u>	DUMMY	NC
41	DUMMY.	NC		DUMMY	NC	-	DUMMY	NC
42	DATA_1_NC	NC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATA_1	D1	42	DATA_1	D1
43	DATA_2_NC	NC	43	DATA_2	D2	43	DATA_2	D2
44	DATA_3_NC	NC	44	DATA_3	D3	44	DATA_3	D3
10.00	DATA_4	D1		DATA_4	D4		DATA_4	D4
			18.2	2			51638	Calery (42)
11-1	00000			2000 2000			(1122)	
	 DATA 681	D672	722	DATA CO4	D681		 DATA 681	D694
		D678		DATA_681	D681		DATA_681	D681
	DATA_682	D679	and the second sec	DATA_682	D682		DATA_682	D682
	DATA_683	D680		DATA_683	D683		DATA_683	D683
725	DATA_684	D681	725	DATA_684	D684	725	DATA_684	D684
726	DUMMY	NC	726	DUMMY	NC	726	DUMMY	NC
727	DUMMY	NC	727	DUMMY	NC	727	DUMMY	NC
(REP	NC	2	REP	NC		REP	NC
	DUMMY	NC	-	DUMMY	NC		DUMMY	NC
	VCOM	VCOM	-	VCOM	VCOM		VCOM	VCOM
			N CONTRACTOR					
	VCOM	VCOM	×	VCOM	VCOM		VCOM	VCOM
	DUMMY	NC		DUMMY	NC		DUMMY	NC
733	DUMMY	NC	733	DUMMY	NC	733	DUMMY	NC
734	DUMMY	NC	734	DUMMY	NC	734	DUMMY	NC
735	DUMMY	NC	×	DUMMY	NC		DUMMY	NC
	DUMMY	NC	2	DUMMY	NC		DUMMY	NC
	DUMMY	NC	-	DUMMY	NC		DUMMY	NC
	VCOM	VCOM		VCOM	VCOM		VCOM	VCOM
	and the second se		2					
139	VCOM	VCOM	×	VCOM	VCOM		VCOM	VCOM
	LATCT	TEST	1 740	ATST	TEST	740	ATST	TEST
740	ATST	TEST		ATST	TEST		ATST	TEST



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Issued Date: Oct. 22 , 2009 CMO Model No.: V315B6 -C02

PIN	DATA4 CELL	INPUT	PIN	DATA5 CELL	INPUT	PIN	DATA6 CELL	INPUT
1	ATST	TEST	1	ATST	TEST	1	ATST	TEST
2		TEST	2	ATST	TEST	2		TEST
3	and the second se	NC	3		NC		DUMMY	NC
4		NC	1 <u></u>	DUMMY	NC		DUMMY	NC
5		VCOM	-	VCOM	VCOM		VCOM	VCOM
6		VCOM	6		VCOM		VCOM	VCOM
7		NC	7		NC			NC
	DUMMY	5000 A P A			12000		DUMMY	
8		NC	-	DUMMY	NC		DUMMY	NC
9		NC		DUMMY	NC		DUMMY	NC
10		NC	10	DUMMY	NC		DUMMY	NC
11	DUMMY	NC	11	DUMMY	NC	11	DUMMY	NC
12	DUMMY	NC	12	DUMMY	NC	12	DUMMY	NC
13	DUMMY	NC	13	DUMMY	NC	13	DUMMY	NC
14	DUMMY	NC	14	DUMMY	NC	14	DUMMY	NC
15	DUMMY	NC	15	DUMMY	NC	15	DUMMY	NC
16	DUMMY	NC	16	DUMMY	NC	16	DUMMY	NC
17	DUMMY	NC	17	DUMMY	NC	17	DUMMY	NC
18	DUMMY	NC		DUMMY	NC		DUMMY	NC
	DUMMY	NC	-	DUMMY	NC		DUMMY	NC
	DUMMY	NC		DUMMY	INC NC		DUMMY	NC
-	DUMMY	NC NC			NC NC		DUMMY	NC
		12 C 2	-					
22		NC	22	DUMMY	NC	22		NC
23		NC	23	DUMMY	NC	23	DUMMY	NC
24		NC	-	DUMMY	NC	24	T. T. 19112.00	NC
25	DUMMY	NC	25	DUMMY	NC	25	DUMMY	NC
26	DUMMY	NC	26	DUMMY	NC	26	DUMMY	NC
27	DUMMY	NC	27	DUMMY	NC	27	DUMMY	NC
28	DUMMY	NC	28	DUMMY	NC	28	DUMMY	NC
29	DUMMY	NC	29	DUMMY	NC	29	DUMMY	NC
30	DUMMY	NC	30	DUMMY	NC	30	DUMMY	NC
	DUMMY	NC		DUMMY	NC		DUMMY	NC
32	DUMMY	NC	32	DUMMY	INC NC	32	DUMMY	NC
- 22	17. 70. 14. 14. 19. 1	5000 A P - 1	1 1000		NC NC			
33		NC	33	and the state of the		<u> </u>	DUMMY	NC
34		VCOM	34		VCOM	34		VCOM
35	VCOM	VCOM	35	VCOM	VCOM	35		VCOM
36	DUMMY	NC	36	DUMMY	NC	36	DUMMY	NC
37	VCOM	VCOM	37	VCOM	VCOM	37	VCOM	VCOM
38	VCOM	VCOM	38	VCOM	VCOM	38	VCOM	VCOM
39	REP	NC	39	REP	NC	39	REP	NC
40	DUMMY	NC	40	DUMMY	NC	40	DUMMY	NC
41	DUMMY	NC	41	DUMMY	NC	41	DUMMY	NC
42	DATA 1	D1	42	DATA 1	D1	42	DATA 1	D1
43		D2	43	DATA 2	D2		DATA 2	D2
43		D3	43	DATA 3	D2 D3		DATA_2 DATA 3	D3
44		D3	44		D3		DATA_3 DATA 4	D3
45	DATA_4		45	UATA_4		45	UATA_4	
	120		3332	3.2		1.12	3.4	125
722	DATA_681	D681	722	DATA_681	D681	722	DATA_681	D681
723	DATA_682	D682	723	DATA_682	D682	723	DATA_682_NC	NC
	DATA_683	D683		DATA_683	D683		DATA_683_NC	NC
	DATA_684	D684		DATA_684	D684		DATA_684_NC	NC
_	DUMMY	NC	-	DUMMY	NC NC		DUMMY	NC
	DUMMY	NC		DUMMY	NC		DUMMY	NC
		- CC 1000		0.002	N	a contraction of the	REP	
	REP	NC	-	REP	NC		2-270	NC
	DUMMY	NC	-	DUMMY	NC		DUMMY	NC
	VCOM	VCOM		VCOM	VCOM		VCOM	VCOM
	VCOM	VCOM		VCOM	VCOM		VCOM	VCOM
732	DUMMY	NC	732	DUMMY	NC	732	SCAN-Gate	VGL
733	DUMMY	NC	733	DUMMY	NC	733	DUMMY	NC
	DUMMY	NC	734	DUMMY	NC	734	G1	NC
	DUMMY	NC		DUMMY	NC	735		NC
	DUMMY	NC		DUMMY	NC		RP2	NC
		NC		DUMMY	NC		RP1	NC
736		DAC 1	1 101		DAL.			
736 737	DUMMY	VCOM	700	VCOM	NOCHA 1			
736 737 738	VCOM	VCOM		VCOM	VCOM		VCOM	VCOM
736 737 738 739		VCOM VCOM TEST	739	VCOM VCOM ATST	VCOM VCOM TEST	739	VCOM VCOM ATST	VCOM VCOM TEST

Note1: NC is CMO reserve.

 \oslash



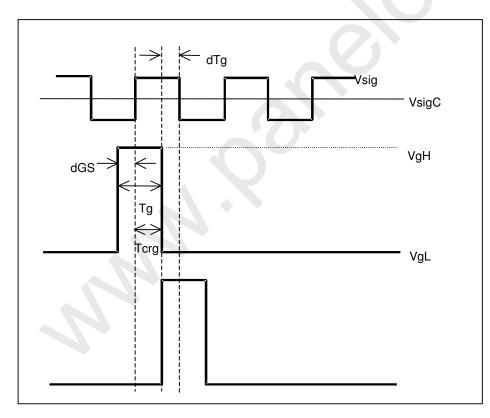
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Version2.0

3.3 Operating condition

The following table describes operating condition at CMO cell inspection

Item		Cell Inspection Condition
Gate	Vgh	23.0V
	Vgl	-5.5V
	dGS	-1.2us
	dTg1	4.7us
	Tg(Gate On Time)	14.8us
	Tcrg(Writing Time)	14.8us
Frame Fre	equency	60Hz
Signal	(Black) Vsig Center	8.78V
	(White) Vsig Center	8.74V
Common	Vcom Center	8.1V
	Vcom Amplitude	0.00V
	Vcom Adjustment	±0.5V
LC	(Black)	0.77V
	(White)	8.14V



12



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4.0 ABSOLUTE RATINGS OF ENVIRONMENT

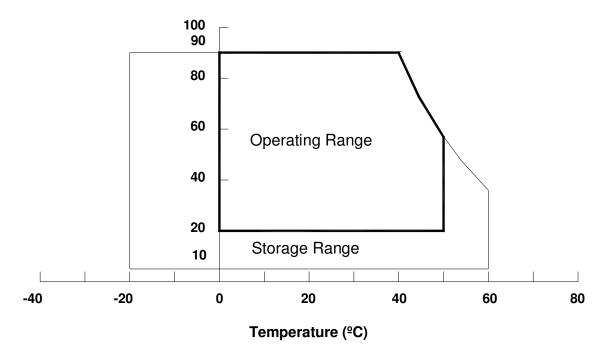
4.1 ABSOLUTE RATINGS OF ENVIRONMENT(BASED on LCD MODULE V315B6-L01)

Item	Symbol	Value		Unit	Note
litem	Symbol	Min.	Max.	Unit	NOLE
Storage Temperature	T _{ST}	-20	+60	°C	(1)
Operating Ambient Temperature	T _{OP}	0	+50	°C	(1), (2), (3)

Note (1) Temperature and relative humidity range is shown in the figure below.

(a) 90 %RH Max. (Ta \leq 40 °C).

- (b) Wet-bulb temperature should be 39 $^{\circ}$ C Max. (Ta > 40 $^{\circ}$ C).
- (c) No condensation.
- Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 °C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 65 °C. The range of operating temperature may degrade in case of improper thermal management in final product design.
- Note (3) The rating of environment is based on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.



Relative Humidity (%RH)



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Version2.0

- 5.0 Packaging
- 5.1 Label

5.1.1 PANEL LABEL



T6243036NY01

5.1.2 DENSE BOX AND CARTON LABEL

315WX01
22
(CMO internal define)
Funai model no.:TLCD10CME011

5.2 PACKING SPECIFICATIONS

- (1) 22 LCD TV Panels / 1 Box
- (2) Dense box dimensions : 810(L) X 510 (W) X 156 (H)
- (3) Weight : approximately 33.5Kg (22 panels per box)



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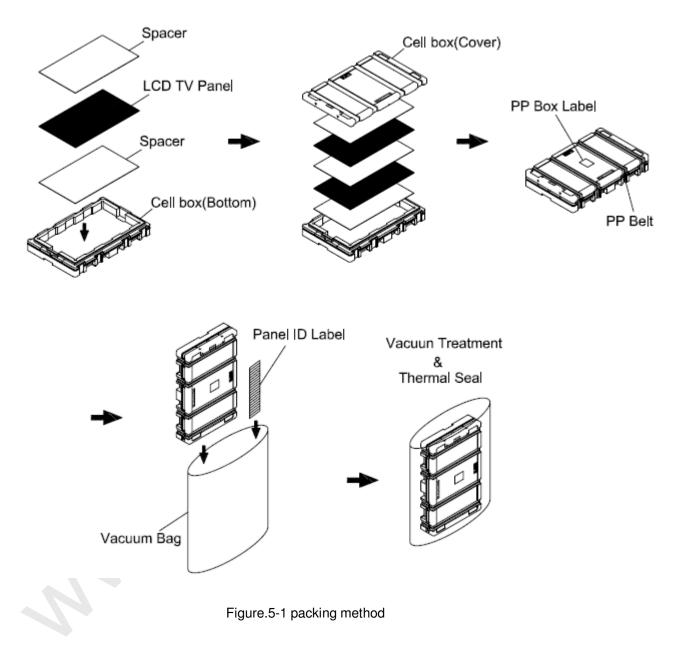
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Version2.0

5.3 PACKING METHOD

Figures 5-1 and 5-2 are the packing method

Box dimensions: 815(L)x510(W)x156(H)mm Weight : Approx.33.5Kg(22 panels per box)





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Version2.0

Weight : Approx 554 Kg(308 panels per Steel)

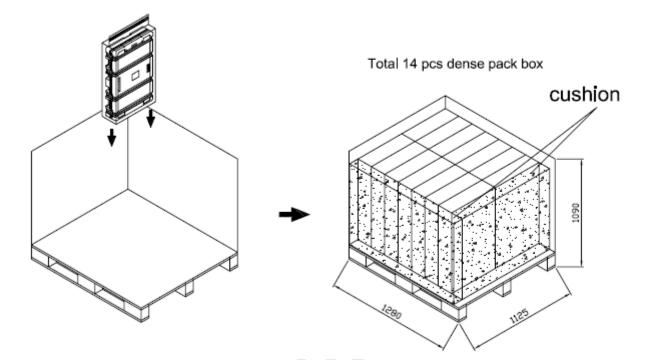


Figure.5-2 packing method



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Version2.0

6.0 Others

If any doubt arises in relation to items not defined in this agreement or any articles in this agreement, both parties shall discuss it with sincerity and arrive at a mutual decision.

****** End Of Page ******