TFT LCD Approval Specification

MODEL NO.: V260B2 - C01

Customer:_____

Approved by:_____

Note:

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Record of Revision

Version	Date	Page (New)	Section	Description
Ver.2.0	Oct.22,'09	All	All	Approval Specification was first issued.

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.

2.0 General Description

This specification is applied to the Type V260B2 TFT/LCD cell. This cell is designed for a display unit for TV application.

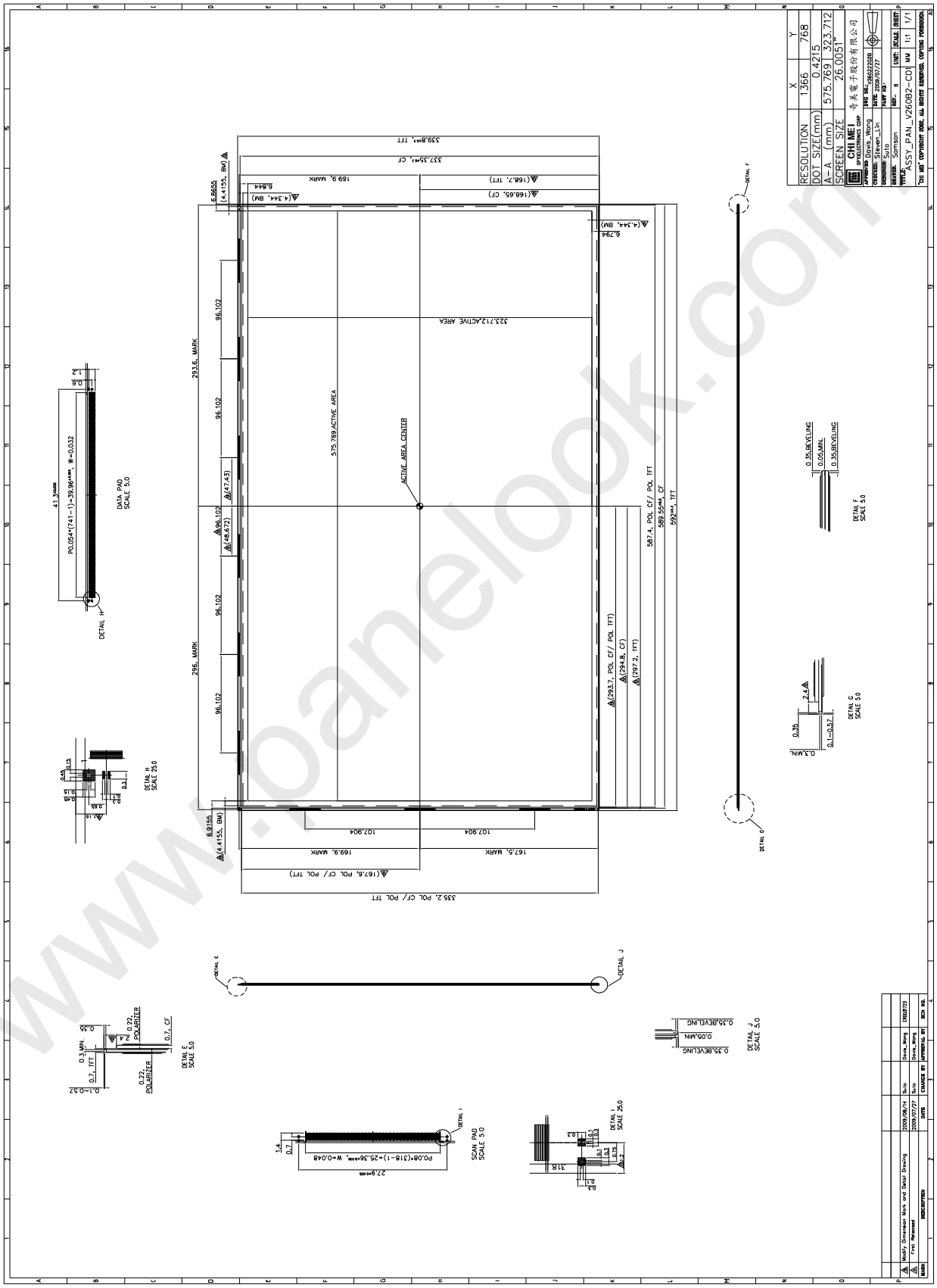
The screen format is intended to support the WXGA (1366(H) x 768(V)) screen.

2.1 Characteristics

CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	26
Pixels [lines]	1366 x R.G.B. x 768
Active Area [mm]	575.769 (H) x 323.712 (V) (26” diagonal)
Sub -Pixel Pitch [mm]	0.1405(H)×0.4215(V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 840
Physical Size [mm]	592(W) x 339.8(H) x 1.84(D) Typ.
Display Mode	Transmissive mode / Normally White
Contrast Ratio	800:1 Typ. (Typical value measured at CMO’s module)
Glass thickness (Array/CF) [mm]	0.7 / 0.7
Viewing Angle (CR>10)	+80/-80(H),+80/-70(V) Typ. (Typical value measured at CMO’s module)
Color Chromaticity	R=0.653, 0.326 G=0.272,0.587 B=0.150,0.086 W=0.311,0.320 *White color is calibrated value measured at Color Filter by C source.
Cell Transparency [%]	7 % Typ. (Typical value measured at CMO’s module)
Polarizer (CF side)	Anti-glare coating, 587.4(H) x 335.2(w). Hardness: 3H
Polarizer (TFT side)	587.4(H) x 335.2(w)

3.0 Cell Outline

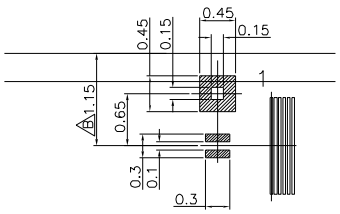
The following figure shows cell outline.



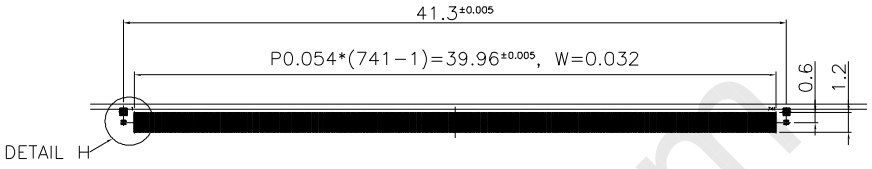
3.1 PAD Design

The following figure shows Data & Scan pad design.

[**Data Pad**] Unit [mm]

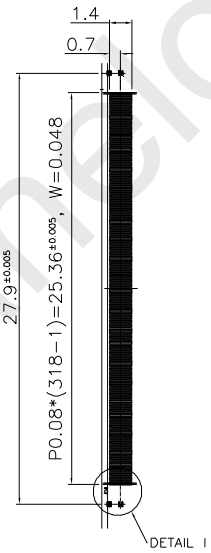


DETAIL H
SCALE 25.0

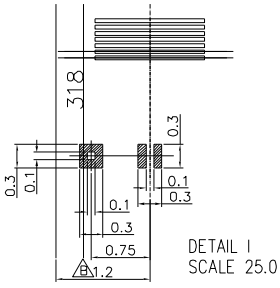


DATA PAD
SCALE 5.0

[**Scan Pad**] Unit [mm]



SCAN PAD
SCALE 5.0



DETAIL I
SCALE 25.0

3.2 OLB PAD Assignment

GATE

SCAN1		
PIN	CELL	INPUT
1	DUMMY	NC
2	ATST	TEST
3	ATST	TEST
4	VCOM	VCOM
5	VCOM	VCOM
6	RP1	NC
7	RP2	NC
8	STV2	STV2
9	LR	LR
10	XAO	XAO
11	OE	OE
12	CPV	CPV
13	STV1	STV1
14	VSS	VSS
15	VSS	VSS
16	VDD	VDD
17	VDD	VDD
18	VEE	VEE
19	VEE	VEE
20	VEE	VEE
21	DUMMY	NC
22	VGH	VGH
23	VGH	VGH
24	VGH	VGH
25	VGH	VGH
26	DUMMY	NC
27	VGL	VGL
28	VGL	VGL
29	VGL	VGL
30	VGL	VGL
31	DUMMY	NC
32	SCAN_1	S1
33	SCAN_2	S2
…	…	…

SCAN2		
PIN	CELL	INPUT
1	DUMMY	NC
2	ATST	TEST
3	ATST	TEST
4	VCOM	VCOM
5	VCOM	VCOM
6	RP1	NC
7	RP2	NC
8	STV2	STV2
9	LR	LR
10	XAO	XAO
11	OE	OE
12	CPV	CPV
13	STV1	STV1
14	VSS	VSS
15	VSS	VSS
16	VDD	VDD
17	VDD	VDD
18	VEE	VEE
19	VEE	VEE
20	VEE	VEE
21	DUMMY	NC
22	VGH	VGH
23	VGH	VGH
24	VGH	VGH
25	VGH	VGH
26	DUMMY	NC
27	VGL	VGL
28	VGL	VGL
29	VGL	VGL
30	VGL	VGL
31	DUMMY	NC
32	SCAN_1	S1
33	SCAN_2	S2
…	…	…

SCAN3		
PIN	CELL	INPUT
1	DUMMY	NC
2	ATST	TEST
3	ATST	TEST
4	VCOM	VCOM
5	VCOM	VCOM
6	RP1	NC
7	RP2	NC
8	STV2	STV2
9	LR	LR
10	XAO	XAO
11	OE	OE
12	CPV	CPV
13	STV1	STV1
14	VSS	VSS
15	VSS	VSS
16	VDD	VDD
17	VDD	VDD
18	VEE	VEE
19	VEE	VEE
20	VEE	VEE
21	DUMMY	NC
22	VGH	VGH
23	VGH	VGH
24	VGH	VGH
25	VGH	VGH
26	DUMMY	NC
27	VGL	VGL
28	VGL	VGL
29	VGL	VGL
30	VGL	VGL
31	DUMMY	NC
32	SCAN_1	S1
33	SCAN_2	S2
…	…	…

SCAN1		
PIN	CELL	INPUT
...	...	...
286	SCAN_255	S255
287	SCAN_256	S256
288	DUMMY	NC
289	VGL	VGL
290	VGL	VGL
291	VGL	VGL
292	VGL	VGL
293	DUMMY	NC
294	VGH	VGH
295	VGH	VGH
296	VGH	VGH
297	VGH	VGH
298	DUMMY	NC
299	VEE	VEE
300	VEE	VEE
301	VEE	VEE
302	VDD	VDD
303	VDD	VDD
304	VSS	VSS
305	VSS	VSS
306	STV2	STV2
307	CPV	CPV
308	OE	OE
309	XAO	XAO
310	LR	LR
311	STV2	STV2
312	RP2	NC
313	RP1	NC
314	VCOM	VCOM
315	VCOM	VCOM
316	ATST	TEST
317	ATST	TEST
318	DUMMY	NC

SCAN2		
PIN	CELL	INPUT
...	...	...
286	SCAN_255	S255
287	SCAN_256	S256
288	DUMMY	NC
289	VGL	VGL
290	VGL	VGL
291	VGL	VGL
292	VGL	VGL
293	DUMMY	NC
294	VGH	VGH
295	VGH	VGH
296	VGH	VGH
297	VGH	VGH
298	DUMMY	NC
299	VEE	VEE
300	VEE	VEE
301	VEE	VEE
302	VDD	VDD
303	VDD	VDD
304	VSS	VSS
305	VSS	VSS
306	STV2	STV2
307	CPV	CPV
308	OE	OE
309	XAO	XAO
310	LR	LR
311	STV2	STV2
312	RP2	NC
313	RP1	NC
314	VCOM	VCOM
315	VCOM	VCOM
316	ATST	TEST
317	ATST	TEST
318	DUMMY	NC

SCAN3		
PIN	CELL	INPUT
...	...	...
286	SCAN_255	S255
287	SCAN_256	S256
288	DUMMY	NC
289	DATA_GATE	VGL
290	DATA_GATE	VGL
291	DUMMY	NC
292	DUMMY	NC
293	DUMMY	NC
294	DUMMY	NC
295	DUMMY	NC
296	DUMMY	NC
297	DUMMY	NC
298	DUMMY	NC
299	DUMMY	NC
300	DUMMY	NC
301	DUMMY	NC
302	DUMMY	NC
303	DUMMY	NC
304	DUMMY	NC
305	DUMMY	NC
306	STV2	STV2
307	DUMMY	NC
308	DUMMY	NC
309	DUMMY	NC
310	DUMMY	NC
311	STV2	STV2
312	RP2	NC
313	RP1	NC
314	VCOM	VCOM
315	VCOM	VCOM
316	ATST	TEST
317	ATST	TEST
318	DUMMY	NC

SIGNAL

DATA1		
PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	VCOM	VCOM
4	VCOM	VCOM
5	RP1	NC
6	RP2	NC
7	STV2	STV2
8	LR	LR
9	XAO	XAO
10	OE	OE
11	CPV	CPV
12	STV1	STV1
13	DUMMY	NC
14	VSS	VSS
15	VSS	VSS
16	VDD	VDD
17	VDD	VDD
18	VEE	VEE
19	VEE	VEE
20	DUMMY	NC
21	VGH	VGH
22	VGH	VGH
23	VGH	VGH
24	VGH	VGH
25	VGH	VGH
26	VGH	VGH
27	DUMMY	NC
28	VGL	VGL
29	VGL	VGL
30	VGL	VGL
31	VGL	VGL
32	VGL	VGL
33	VGL	VGL
34	DUMMY	NC

DATA2~5		
PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	DUMMY	NC
4	DUMMY	NC
5	DUMMY	NC
6	DUMMY	NC
7	DUMMY	NC
8	DUMMY	NC
9	DUMMY	NC
10	DUMMY	NC
11	DUMMY	NC
12	DUMMY	NC
13	DUMMY	NC
14	DUMMY	NC
15	DUMMY	NC
16	DUMMY	NC
17	DUMMY	NC
18	DUMMY	NC
19	DUMMY	NC
20	DUMMY	NC
21	DUMMY	NC
22	DUMMY	NC
23	DUMMY	NC
24	DUMMY	NC
25	DUMMY	NC
26	DUMMY	NC
27	DUMMY	NC
28	DUMMY	NC
29	DUMMY	NC
30	DUMMY	NC
31	DUMMY	NC
32	DUMMY	NC
33	DUMMY	NC
34	DUMMY	NC

DATA6		
PIN	CELL	INPUT
1	ATST	TEST
2	ATST	TEST
3	DUMMY	NC
4	DUMMY	NC
5	DUMMY	NC
6	DUMMY	NC
7	DUMMY	NC
8	DUMMY	NC
9	DUMMY	NC
10	DUMMY	NC
11	DUMMY	NC
12	DUMMY	NC
13	DUMMY	NC
14	DUMMY	NC
15	DUMMY	NC
16	DUMMY	NC
17	DUMMY	NC
18	DUMMY	NC
19	DUMMY	NC
20	DUMMY	NC
21	DUMMY	NC
22	DUMMY	NC
23	DUMMY	NC
24	DUMMY	NC
25	DUMMY	NC
26	DUMMY	NC
27	DUMMY	NC
28	DUMMY	NC
29	DUMMY	NC
30	DUMMY	NC
31	DUMMY	NC
32	DUMMY	NC
33	DUMMY	NC
34	DUMMY	NC

DATA1		
PIN	CELL	INPUT
35	VST_GND	GND
36	VST_GND	GND
37	VCOM(short bar)	VCOM
38	REPAIR_OUT	NC
39	DUMMY	NC
40	DUMMY	NC
41	DATA_1_NC	NC
42	DATA_2_NC	NC
43	DATA_3_NC	NC
44	DATA_4	D1
...	...	...
...	...	...
...	...	...
721	DATA_681	D678
722	DATA_682	D679
723	DATA_683	D680
724	DATA_684	D681
725	DUMMY	NC
726	DUMMY	NC
727	REPAIR_OUT	NC
728	DUMMY	NC
729	DUMMY	NC
730	DUMMY	NC
731	DUMMY	NC
732	DUMMY	NC
733	DUMMY	NC
734	DUMMY	NC
735	DUMMY	NC
736	DUMMY	NC
737	DUMMY	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

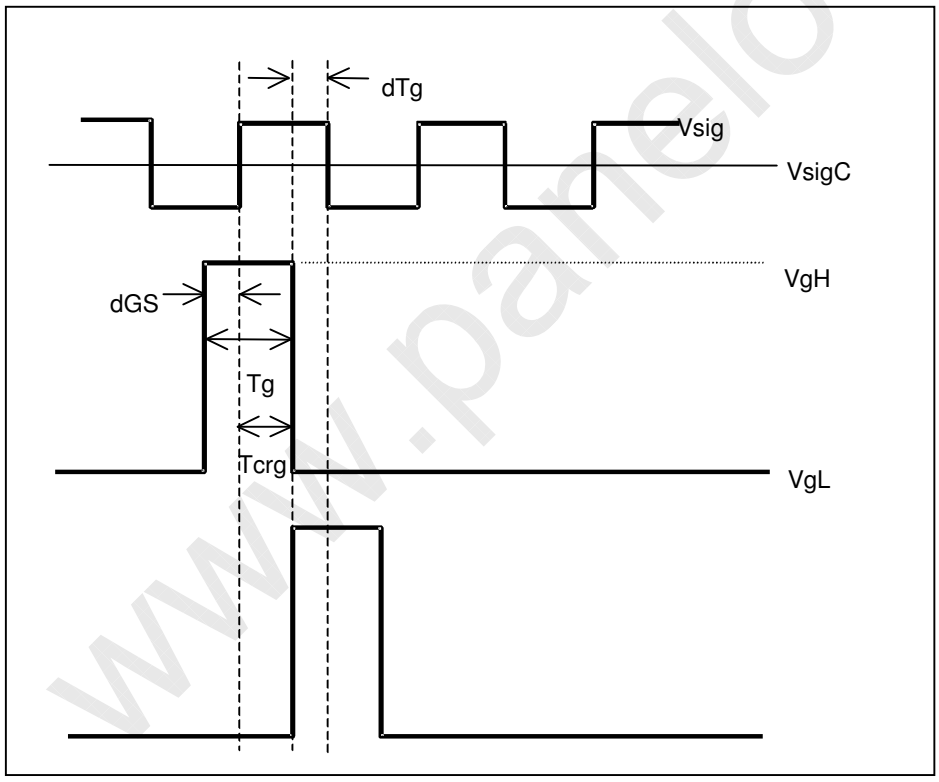
DATA2~5		
PIN	CELL	INPUT
35	VCOM	VCOM
36	VCOM	VCOM
37	DUMMY	NC
38	REPAIR_OUT	NC
39	DUMMY	NC
40	DUMMY	NC
41	DATA_1	D1
42	DATA_2	D2
43	DATA_3	D3
44	DATA_4	D4
...	...	...
...	...	...
...	...	...
721	DATA_681	D681
722	DATA_682	D682
723	DATA_683	D683
724	DATA_684	D684
725	DUMMY	NC
726	DUMMY	NC
727	REPAIR_OUT	NC
728	DUMMY	NC
729	DUMMY	NC
730	DUMMY	NC
731	DUMMY	NC
732	DUMMY	NC
733	DUMMY	NC
734	DUMMY	NC
735	DUMMY	NC
736	DUMMY	NC
737	DUMMY	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

DATA6		
PIN	CELL	INPUT
35	VCOM	VCOM
36	VCOM	VCOM
37	DUMMY	NC
38	REPAIR_OUT	NC
39	DUMMY	NC
40	DUMMY	NC
41	DATA_1	D1
42	DATA_2	D2
43	DATA_3	D3
44	DATA_4	D4
...	...	...
...	...	...
...	...	...
721	DATA_681	D681
722	DATA_682_NC	NC
723	DATA_683_NC	NC
724	DATA_684_NC	NC
725	DUMMY	NC
726	DUMMY	NC
727	REPAIR_OUT	NC
728	SCAN_OUT	NC
729	VCOM(short bar)	VCOM
730	VST_GND	GND
731	VST_GND	GND
732	SCAN_GATE	VGL
733	DUMMY	NC
734	G1	NC
735	G2	NC
736	RP2	NC
737	RP1	NC
738	VCOM	VCOM
739	VCOM	VCOM
740	ATST	TEST
741	ATST	TEST

3.3 Operating condition

The following table describes operating condition at CMO cell inspection

Item		Cell Inspection Condition
Gate	Vgh	23V
	Vgl	-5.5V
	dGS	1.5us
	dTg1	3.8us
	Tg(Gate On Time)	15.5us
	Tcrg(Writing Time)	13.5us
Frame Frequency		60Hz
Signal	(Black) Vsig Center	6.71V
	(BWhite) Vsig Center	6.82V
Common	Vcom Center	6.07V
	Vcom Amplitude	0.00V
	Vcom Adjustment	±0.5V
LC	(Black)	5.60V
	(White)	0.34V



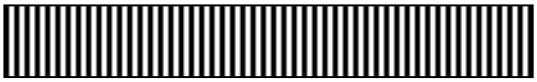
4.0 Storage Conditions

High temperature or humidity may reduce the performance of panel. Please store LCD panel within the specified storage conditions. The recommended storage conditions are 25℃±5℃, 50±10%RH.

5.0 Label and Packaging

5.1 Label

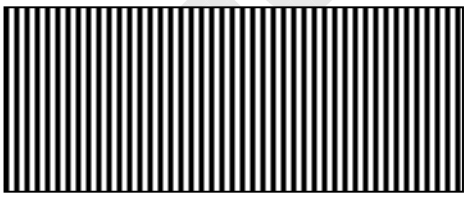
5.1.1 PANEL LABEL



T2243036NY01

5.1.2 DENSE BOX AND CARTON LABEL

Model Name	V260B2-C01
Panel Type	26WX01
Quantity	20
Case ID	(CMO internal define)
Note	(CMO internal define)
Note1	



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5.2 Package

5.2.1 PACKING SPECIFICATIONS

(1) 20 LCD TV Panels / 1 Box

(2) Box dimensions : 694(L) X 442 (W) X 145 (H)

(3) Weight : approximately 21Kg (20 panels per bag)

5.2.2 PACKING METHOD

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

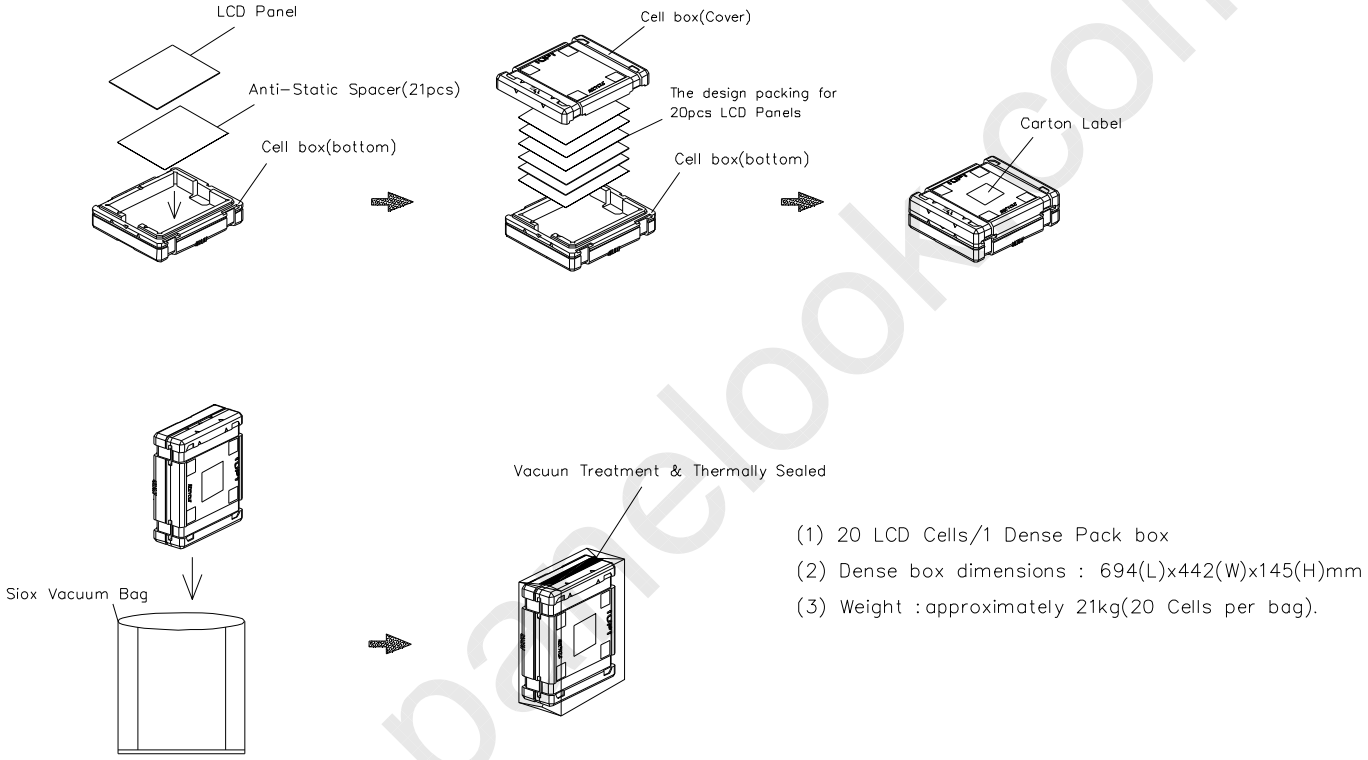

Figure.5-1 packing method

Pallet Stack:L1180*W1000*H1471mm

Weight: 645 kg

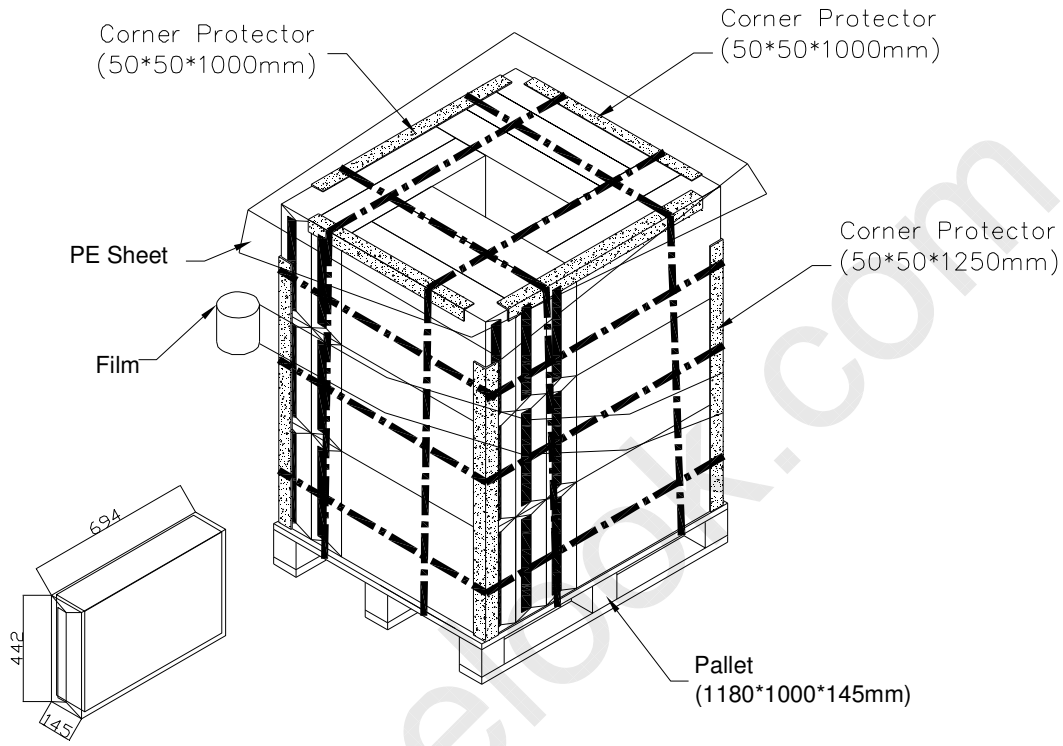

Figure.5-2 packing method

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.

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