



Doc. Number:

Tentative Specification
Preliminary Specification
Approval Specification

MODEL NO: HE080IA-06B

Customer:	
APPROVED BY	SIGNATURE
Name / Title Note	
Please return 1 copy for your confir signature and comments.	mation with your

Approved By	Checked By	Prepared By

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REVISION HISTORY

Version	Date	Page (New)	Section	Description
Ver. 0.0	2016/03/09	All	All	Product spec was first issued for LCD cut.

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1.PURPOSE

The specification <u>HE080IA-06B</u> is a 8" a-Si TFT Liquid Crystal Display ODF cell. The ODF cell has been designed by Innolux, and manufactured by Innolux under the agreement of customer. The a-Si TFT-LCD cell will be applied to a high transmittance operating in the normally black mode a-Si TFT-LCD product.

2.GENERAL RULES OF SINGLE PANEL

2.1 GENERAL SPECIFICATION

	Item		Specification	unit		
1	Glass thickness	TFT	0.4	mm		
'	Glass trickress	CF	0.4	111111		
2	Shipping mode		Cut	-		
3	Shipping size		365.862 x 363.6 x 0.8	mm		
4	Panel outline dimension		112.64(H) x 181.8(V) x 0.8(D)	mm		
5	Active screen size		107.64(H) x 172.224(V)	mm		
6	Resolution		800 x RGB x 1280	pixel		
7	Pixel driving element		Pixel driving element a-Si TFT		-	
8	Sub pixel size		Sub pixel size		44.85 x 134.55	um
9	Pixel arrangement		RGB-stripe	ı		
10	View direction (Gray inversion	on)	Free	1		
11	Cell gap		3.2±0.3	um		
12	Driver IC		NT35521 JD9367(FITI)	-		
13	Weight without POL		0.257	kg		
14	Scanning Method		Dual scan	-		

<Note> 1. Compatible IC : OTM1283A / HX8394-A / R61318 / JD9367 / ILI9881 / NT35521S / HX8394-D / ILI9881C / JD9364 / OTM1284A / OTM1287A / HX8394-F

The other compatible IC are also considered for the design of pad locations.

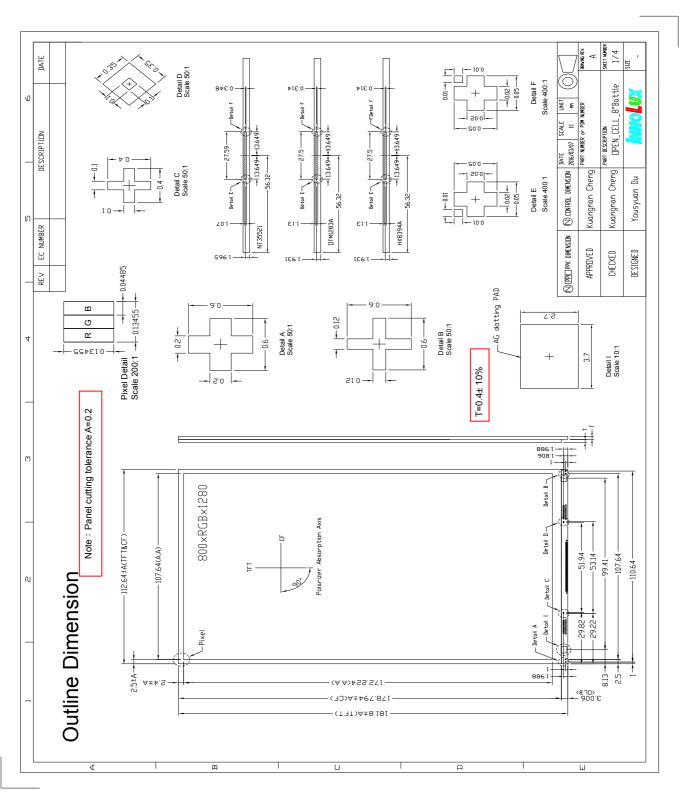
- 2. Those compatible IC should be verified for panel performance. Please refer to the IC datasheet (AP note) respectively.
- 3. This model is designed by the driver IC with(without) bumping compensation.

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2.2 DIMENSION

2.2.1 OUTLINE DIMENSION

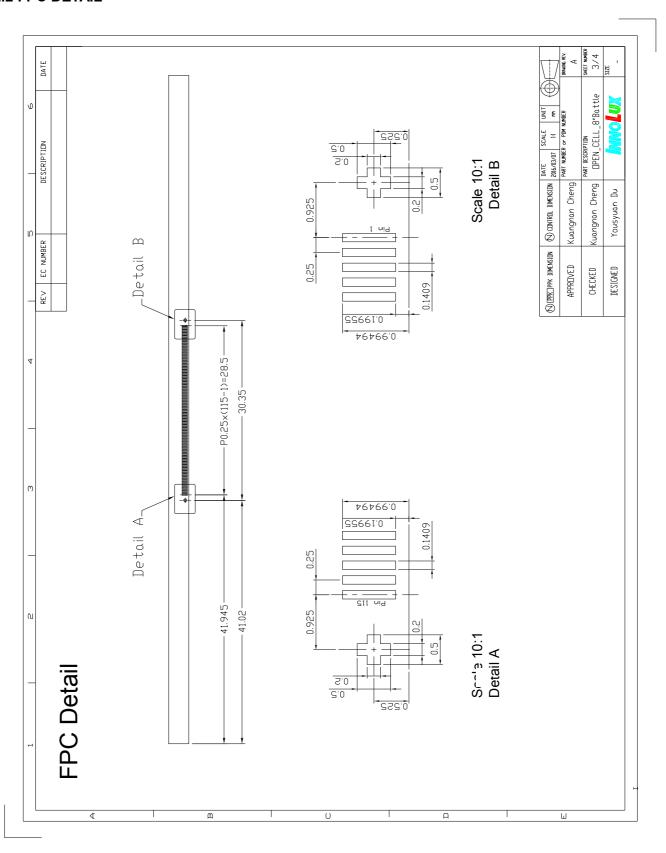


Note: (1) panel outline dimension tolerance ± 0.2 mm

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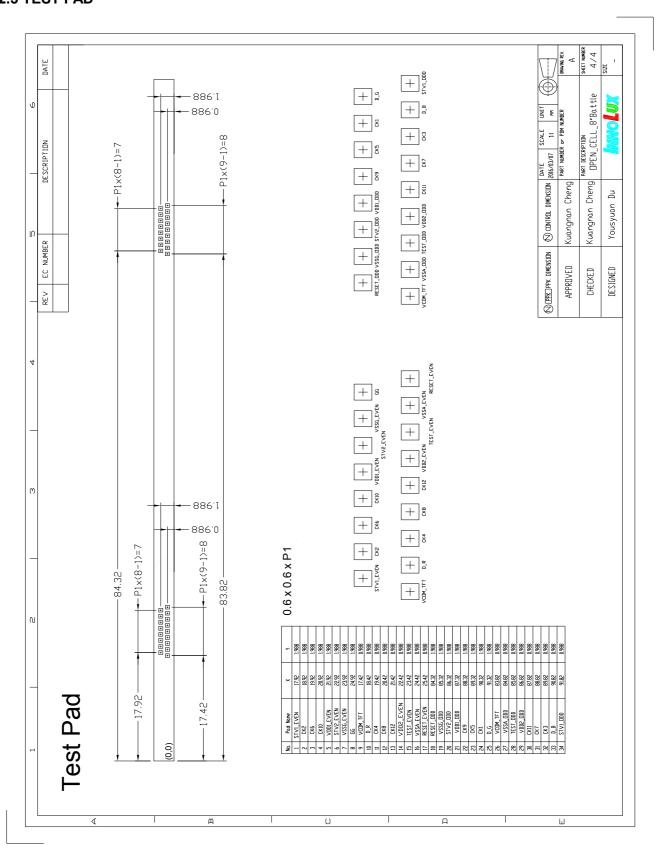


2.2.2 FPC DETAIL





2.2.3 TEST PAD





3. PIN ASSIGNMENT

3.1 FPC/IC PIN ASSIGNMENT TABLE

Pad No.	NT35521 Pad_Name	Connect to	FPC Pin Name	FPC Pin No.
X	X	FPC	DUMMY	1
X	^ X	FPC	DUMMY	2
X	^ X	ITO GND	IPS_GND	3
24	VCOM	ITO GND	IF3_GND	3
25	VCOM	Panel_VCOM	VCOM	4
26	VCOM	. FPC	VCOIVI	4
27	AVSS			
28	AVSS			
29	AVSS			
30	AVSS			
31	AVSS			
32	AVSS	FPC	AVSS	5
33	AVSS			
34	AVSS			
35	AVSS			
36	AVSS			
37	MVDDL			
38	MVDDL	FPC	MVDDL	6
39	VSSAM	FPC	VSSAM	7
40	HSSI_D0_N		HSSI_D0_N	8
41	HSSI_D0_N			
42	HSSI_D0_N			
43	HSSI_D0_N	FPC		
44	HSSI_D0_N			
45	HSSI_D0_N			
46	HSSI_D0_P			
47	HSSI_D0_P			
48	HSSI_D0_P		11001 70 -	_
49	HSSI_D0_P	FPC	HSSI_D0_P	9
50	HSSI_D0_P			
51	HSSI_D0_P			
52	VSSAM	FPC	VSSAM	10
53	HSSI_D1_N			
54	HSSI_D1_N			
55	HSSI_D1_N	EDO	HCCL D4 M	44
56	HSSI_D1_N	FPC	HSSI_D1_N	11
57	HSSI_D1_N			
58	HSSI_D1_N			
59	HSSI_D1_P			
60	HSSI_D1_P	FPC	HSSI_D1_P	12
61	HSSI_D1_P		- -	

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62	HSSI_D1_P			
63	HSSI_D1_P			
64	HSSI_D1_P			
65	VSSAM	FPC	VSSAM	13
66	HSSI_CLK_N			
67	HSSI_CLK_N			
68	HSSI_CLK_N	FPC	HSSI_CLK_N	14
69	HSSI_CLK_N		11991_CLK_N	14
70	HSSI_CLK_N			
71	HSSI_CLK_N			
72	HSSI_CLK_P			
73	HSSI_CLK_P			
74	HSSI_CLK_P	EDC	Heel CIN D	15
75	HSSI_CLK_P	FPC	HSSI_CLK_P	15
76	HSSI_CLK_P			
77	HSSI_CLK_P			
78	VSSAM	FPC	VSSAM	16
79	HSSI_D2_N			
80	HSSI_D2_N			
81	HSSI_D2_N	FD0	11001 50 11	4-
82	HSSI_D2_N	FPC	HSSI_D2_N	17
83	HSSI_D2_N			
84	HSSI_D2_N	1		
85	HSSI_D2_P			
86	HSSI_D2_P			40
87	HSSI_D2_P	FD0		
88	HSSI_D2_P	FPC	HSSI_D2_P	18
89	HSSI_D2_P			
90	HSSI_D2_P			
91	VSSAM	FPC	VSSAM	19
92	HSSI_D3_N			
93	HSSI_D3_N			
94	HSSI_D3_N		11001 50 11	22
95	HSSI_D3_N	FPC	HSSI_D3_N	20
96	HSSI_D3_N			
97	HSSI_D3_N			
98	HSSI_D3_P			
99	HSSI_D3_P	1		
100	HSSI_D3_P			
101	HSSI_D3_P	FPC	HSSI_D3_P	21
102	HSSI_D3_P			
103	HSSI_D3_P			
104	VSSAM			
105	VSSAM	FPC	VSSAM	
106	VSSAM			22
107	VSSAM			
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秆 启り.	儿电			
108	VSSAM			
109	VSSAM			
110	VSSAM			
111	VSSAM			
112	VSSAM			
113	VSSAM			
114	VSSAM			
115	VSSAM			
116	MVDDA			
117	MVDDA			
118	MVDDA			
119	MVDDA			
120	MVDDA			
121	MVDDA	FDC	AAV/DDA	22
122	MVDDA	FPC	MVDDA	23
123	MVDDA			
124	MVDDA			
125	MVDDA			
126	MVDDA			
127	MVDDA			
128	VDDA			
129	VDDA			
130	VDDA			24
131	VDDA			24
132	VDDA			
133	VDDA	FPC	VDDA	
134	VDDA	FPC	VDDA	
135	VDDA			
136	VDDA			05
137	VDDA			25
138	VDDA			
139	VDDA			
140	VDDI			
141	VDDI			
142	VDDI			
143	VDDI			26
144	VDDI			
145	VDDI			
146	VDDI	FDC	VDDI	
147	VDDI	FPC	VDDI	
148	VDDI			
149	VDDI			
150	VDDI			27
151	VDDI			
152	VDDI			
153	VDDI			
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154	VDDI			
155	DVDD			
156	DVDD			
157	DVDD			
158	DVDD			
159	DVDD			
160	DVDD			
161	DVDD			
162	DVDD	FPC	DVDD	28
163	DVDD			
164	DVDD			
165	DVDD			
166	DVDD			
167	DVDD			
168	DVDD			
169	DVDD			
170	DVSS			
171	DVSS			
172	DVSS			29
173	DVSS			
174	DVSS		DVSS	
175	DVSS			
176	DVSS			
177	DVSS	FPC		
178	DVSS			
179	DVSS			
180	DVSS			
181	DVSS			
182	DVSS			
183	DVSS			
184	DVSS			
185	OSC_MIPI			
186	OSC_MIPI			
187	VSSB			30
188	VSSB			50
189	VSSB			31
190	VSSB	FPC	VSSB	JI
191	VSSB		V 30D	32
192	VSSB			52
193	VSSB			33
194	VSSB			33
195	AVSS			34
196	AVSS			34
197	AVSS	FPC	AVSS	35
198	AVSS			30
199	AVSS			36
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200	AVSS			37
201	AVSS			38
202	AVSS			
203	AVDD			39
204	AVDD			40
205	AVDD			40
206	AVDD	FPC	AVDD	41
207	AVDD			71
208	AVDD			42
209	AVDD			42
210	AVEE			43
211	AVEE			45
212	AVEE	EDC	A\/EE	44
213	AVEE	FPC	AVEE	44
214	AVEE			AE
215	AVEE			45
216	C21P			
217	C21P			
218	C21P			
219	C21P			
220	C21P	500	0045	40
221	C21P	FPC	C21P	46
222	C21N			
223	C21N			
224	C21N			
225	C21N			
226	C21N			
227	C21N			
228	C22P			
229	C22P			
230	C22P			
231	C22P			
232	C22P			
233	C22P			
234	C22N			
235	C22N			
236	C22N			
237	C22N			
238	C22N	55.0	00	
239	C22N	FPC	C21N	47
240	T_D7			
241	 T_D6			
242	 T_D5			
243	 T_D4			
244	T_D3			
245	T_D2			
		<u> </u>		<u> </u>

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246	T_D1			
247	T_D0			
248	T_HS			
249	T_VS			
250	 T_DE			
251	 T_PK			
252				
253	T_IM			
254	TEST6			
255	TEST7			
256	PSWAP			
257	PSWAP	FPC	PSWAP	48
258	DSWAP0			
259	DSWAP0	FPC	DSWAP0	49
260	DSWAP1			
261	DSWAP1	FPC	DSWAP1	50
262	DSWAP2			
263	DSWAP2	FPC	DSWAP2	51
264	D/CX			
265	D/CX			
266	CSX			
267	CSX			
268	SCL			
269	SCL			
270	SDI			
271	SDI			
272	SDO			
273	SDO			
274	LEDPWM			
275	LEDPWM	_		
276	LEDPWM	FPC	LEDPWM	52
277	LEDPWM			
278	TE			
279	TE			
280	TE			
281	TE	FPC	TE	53
282	TE			
283	TE			
284	TE1			
285	TE1			
286	TE1			
287	TE1	FPC	TE1	54
288	TE1			
289	TE1			
290	RESX			
291	RESX	FPC	RESX	55
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292	RESX				
293	RESX				
294	T_RD				
295	T_RD				
296	VDDI				
297	VDDI				
298	VDDI	FPC	VDDI	56	
299	VDDI	TFC	VDDI	30	
300	VDDI				
301	VDDI				
302	IM0	- FPC	IM0	57	
303	IM0	T FPC	IIVIU	57	
304	IM1	- FPC	INAA	F0	
305	IM1	- FPC	IM1	58	
306	LANSEL0	FDO	LANGELO	50	
307	LANSEL0	FPC	LANSEL0	59	
308	LANSEL1	500	14110514		
309	LANSEL1	FPC	LANSEL1	60	
310	VGSW0	FDO	1/00/1/0	0.4	
311	VGSW0	FPC	VGSW0	61	
312	VGSW1		11001111		
313	VGSW1	FPC	VGSW1	62	
314	VSSI				
315	VSSI				
316	VSSI	FPC	VSSI	63	
317	VSSI				
318	VGSW2	500	L/OOM/O	0.4	
319	VGSW2	FPC	VGSW2	64	
320	VGSW3	FDO		0.5	
321	VGSW3	FPC	VGSW3	65	
322	BTM0	FDO	DTMO		
323	BTM0	FPC	BTM0	66	
324	BTM1	EDC.	DTM	07	
325	BTM1	FPC	BTM1	67	
326	BTM2	EDC.	DTMO	60	
327	BTM2	FPC	BTM2	68	
328	DVDD				
329	DVDD				
330	DVDD				
331	DVDD				
332	DVDD		51/55	20	
333	DVDD	FPC	DVDD	69	
334	DVDD				
335	DVDD	1			
336	DVDD	1			
337	DVDD				
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338	DVSS				
339	DVSS				
340	DVSS				
341	DVSS				
342	DVSS	FDC	DVCC	70	
343	DVSS	- FPC	DVSS	70	
344	DVSS				
345	DVSS				
346	DVSS				
347	DVSS				
348	AVDD				
349	AVDD				
350	AVDD				
351	AVDD				
352	AVDD		A) (D)		
353	AVDD	FPC	AVDD	71	
354	AVDD				
355	AVDD				
356	AVDD				
357	AVDD				
358	EXTP				
359	EXTP				
360	EXTP				
361	EXTP	FDO	EXTP	70	
362	EXTP	FPC		72	
363	EXTP				
364	EXTP				
365	EXTP				
366	EXTN				
367	EXTN				
368	EXTN				
369	EXTN	FDC	FVTNI	70	
370	EXTN	FPC	EXTN	73	
371	EXTN				
372	EXTN				
373	EXTN				
374	CSPN				
375	CSPN				
376	CSPN	- FDC	CCDN	74	
377	CSPN	FPC	CSPN	74	
378	CSPN				
379	CSPN				
380	VGL_REG2	FD0	VOL 5500		
381	VGL_REG2	FPC	VGL_REG2	75	
382	VGL_REG	FD0	VOL 555		
383	VGL_REG	FPC	VGL_REG	76	
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384	VGL_REG				
385	VGL_REG				
386	VGL_REG				
387	VSSA				
388	VSSA				
389	VSSA	FPC	VSSA	77	
390	VSSA				
391	VSSA				
392	VSSR				
393	VSSR	FPC	VSSR	78	
394	VSSR				
395	VDDR				
396	VDDR	FPC	VDDR	79	
397	VDDR	TFC	VDDR	79	
398	VDDR				
399	AVEE				
400	AVEE				
401	AVEE				
402	AVEE	FPC	AVEE	80	
403	AVEE				
404	AVEE				
405	AVEE				
406	VGMP				
407	VGMP	FPC	VGMP	81	
408	VGMP				
409	VGMN				
410	VGMN	FPC	VGMN	82	
411	VGMN				
412	VREF				
413	VREF	FPC	VREF	83	
414	VREF				
415	VEQP_SD				
416	VEQP_SD	7			
417	VEQP_SD	FPC	VEQP_SD	84	
418	VEQP_SD	7			
419	VEQP_SD	7			
420	VCL				
421	VCL				
422	VCL	7			
423	VCL		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
424	VCL	FPC	VCL	85	
425	VCL	1			
426	VCL				
427	VCL	†			
428	VEQN_SD				
429	VEQN_SD	FPC	VEQN_SD	86	
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HIMDY	<i>-</i>		-		
430	VEQN_SD				
431	VEQN_SD				
432	VEQN_SD				
433	C31P				
434	C31P				
435	C31P				
436	C31P	FPC	C31P	87	
437	C31P				
438	C31P				
439	C31P				
440	C31N				
441	C31N				
442	C31N				
443	C31N	FPC	C31N	88	
444	C31N				
445	C31N				
446	C31N	1			
447	C32P				
448	C32P				
449	C32P				
450	C32P	FPC	C32P	89	
451	C32P				
452	C32P				
453	C32P				
454	C32N				
455	C32N				
456	C32N				
457	C32N	FPC	C32N	90	
458	C32N				
459	C32N				
460	C32N				
461	VDDB				
462	VDDB	1			
463	VDDB				
464	VDDB	FPC	VDDB	91	
465	VDDB				
466	VDDB				
467	VDDB				
468	VSSB				
469	VSSB				
470	VSSB				
471	VSSB	FPC	VSSB	92	
472	VSSB				
473	VSSB	1			
474	VSSB	_			
475	C41P	FPC	C41P	93	
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TIT ID'S	70-0			
476	C41P			
477	C41P			
478	C41P			
479	C41P			
480	C41P			
481	C41P			
482	C41N			
483	C41N			
484	C41N			
485	C41N	FPC	C41N	94
486	C41N			
487	C41N			
488	C41N			
489	C42P			
490	C42P			
491	C42P			
492	C42P	FPC	C42P	95
493	C42P			
494	C42P			
495	C42P			
496	C42N			
497	C42N			
498	C42N			
499	C42N	FPC	C42N	96
500	C42N			
501	C42N			
502	C42N			
503	VGH			
504	VGH			
505	VGH	FPC	VGH	97
506	VGH	FFG	VGIT	91
507	VGH			
508	VGH			
509	VRGH			
510	VRGH			
511	VRGH	FPC	VRGH	98
512	VRGH	110	VIXOIT	30
513	VRGH			
514	VRGH			
515	AVEE			
516	AVEE			
517	AVEE			
518	AVEE	FPC	AVEE	99
519	AVEE			
520	AVEE			
521	AVEE			
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HI MJ				
522	AVEE			
523	C51P			
524	C51P			
525	C51P			
526	C51P	FPC	C51P	100
527	C51P			
528	C51P			
529	C51P			
530	C51N			
531	C51N			
532	C51N			
533	C51N	FPC	C51N	101
534	C51N			
535	C51N			
536	C51N			
537	VGLX			
538	VGLX			
539	VGLX			102
540	VGLX	FPC	VGLX	
541	VGLX			
542	VGLX			
543	VGLX			
544	AVDD		AVDD	
545	AVDD			
546	AVDD			103
547	AVDD	FPC		
548	AVDD			
549	AVDD			
550	AVDD			
551	VDDA			
552	VDDA			
553	VDDA	FPC	VDDA	104
554	VDDA			
555	VDDA			
556	VDDA			
557	VSSB			
558	VSSB			
559	VSSB			
560	VSSB	FPC	VSSB	105
561	VSSB			
562	VSSB			
563	VSSB			
564	C11P			
565	C11P	FPC	C11P	106
566	C11P	_	-	
567	C11P			
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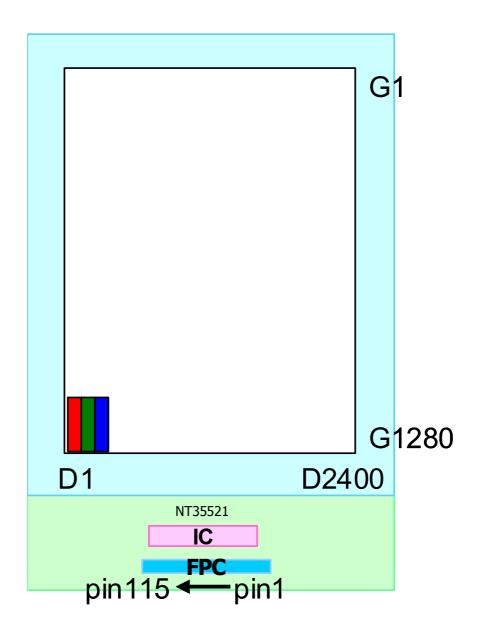


X	X	FPC	DUMMY	115	
Х	X	ITO GND	IPS_GND	114	
Х	X		VCOM	113	
X	X	Panel_VCOM	VCOM	112	
Х	X		VCOM	111	
583	VCOM				
582	VCOM	FPC	VCOM	110	
581	VCOM				
580	MTP_PWR	<u> </u>		109	
579	MTP_PWR	FPC	MTP_PWR	100	
578	MTP_PWR	EDC		108	
577	MTP_PWR			100	
576	C11N	<u> </u>			
575	C11N				
574	C11N	FPC	CTIN	107	
573	C11N	FPC	C11N	107	
572	C11N				
571	C11N				
570	C11P				
569	C11P				
568	C11P				

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3.2 SCHEMATIC PANEL LAYOUT

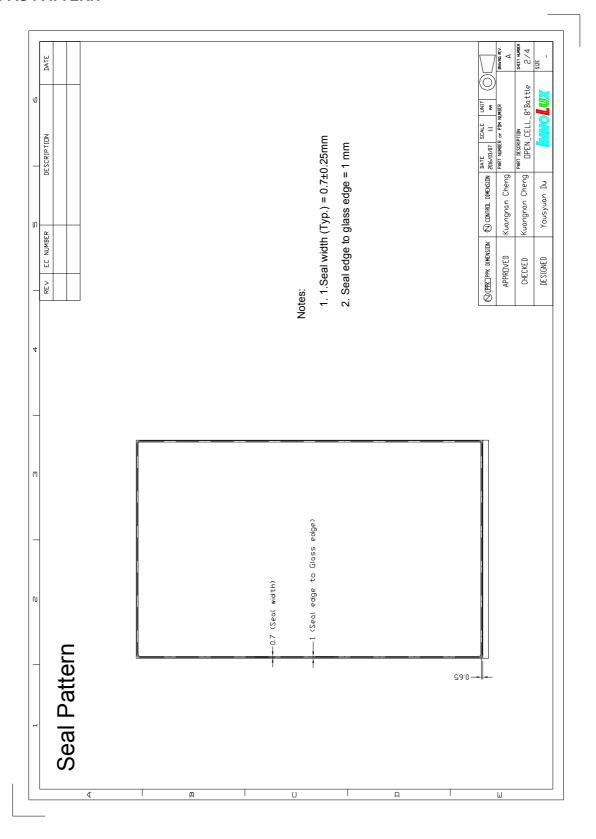


Note: GOP can support dual scan.



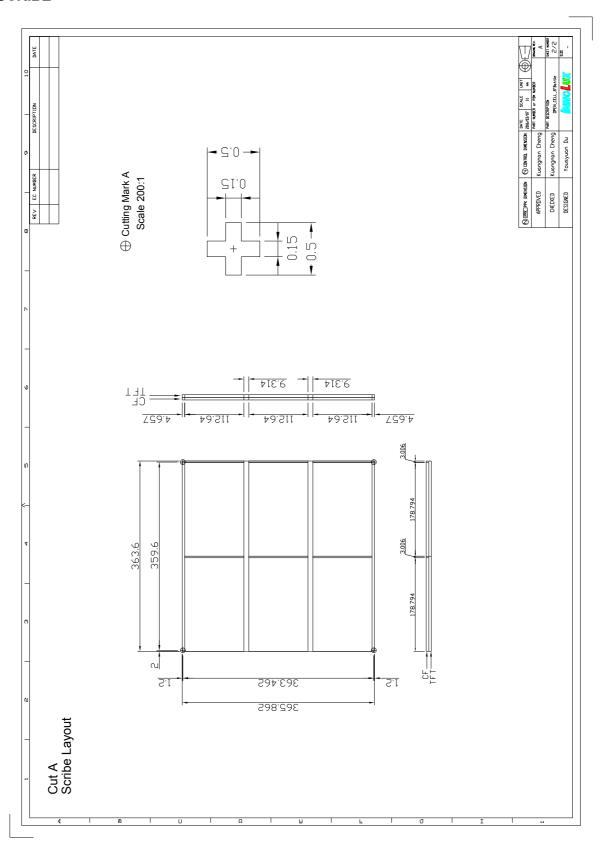
4. CELL PROCESS RULES

4.1 SEAL / AU PATTERN





5. CELL SCRIBE





6.ELECTRICAL SPECIFICATION

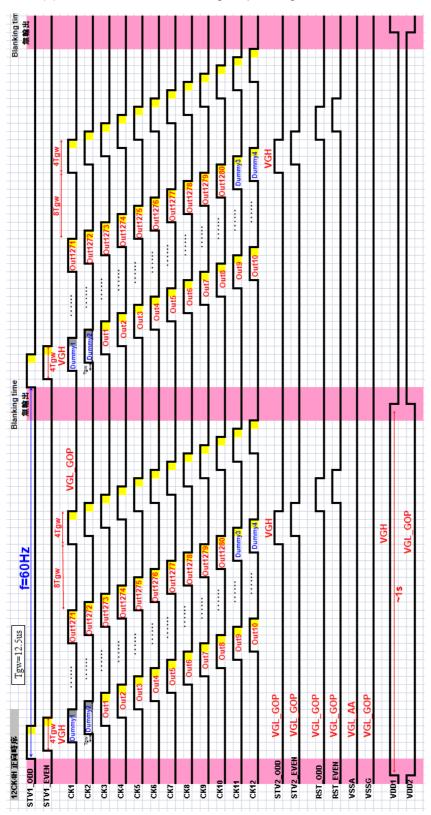
Item	Symbol		Specification			
nem	Symbol	Min.	Тур.	Max.	Unit	
TFT gate on voltage	VGH		(18)	TFT gate on voltage	V	
TFT gate on voltage	VGL_GOP		-12	TFT gate on voltage	V	
TFT gate on voltage	VGL_AA		-10	TFT gate on voltage	V	
TFT common electrode voltage	Vcom(DC)		NA	TFT common electrode voltage	V	

Note: (1) Vcom must be adjusted to optimize display quality: cross-talk, contrast ratio and etc.

- (2) VGH is TFT gate operating voltage
- (3) VGL_GOP and VGL_AA are TFT gate operating voltage
- (4) Environmental condition: 25±5
- (5) Reference waveform for panel light on is as below: (release after sample output)



(6) Reference waveform timing for panel light on is as below:



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7. OPTICAL SPECIFICATION (light source: C light)

Item		Symbol	Conditions	SI	Specifications		Unit	Note
		Symbol	Conditions	Min.	Тур.	Max.	Offic	Note
	Transmittance (w/o APCF)		Viewing	4.3	5.0	1	%	All left side data are based on Innolux's following condition –
Contrast R	atio	CR	normal angle $\theta_{x} = \theta_{y} = 0^{\circ}$	800	1000	-		1.LC : AAS 2.Light Source : Innolux LED
Response ⁻	Time	T _{on +} T _{off}	مر در د	-	25	30	ms	(BLU film structure: Diffuser+BEF+BEF+ Diffuser_
	Hor.	θ_{X^+}			85	1		3.Polarizer (CF/TFT) : Sumika SRW062APN1HC5/
Viewing Angle	HUI.	θ _{X-}	Center		85	-	deg.	SRW062AFN1HC3/ SRW062APN1AG6 4.Machine : DMS-803
v.eg /g.e	Ver.	θ_{Y^+}	CR>10		85			(Eldim for ViewAngle) 5. VLC white : 4.8V,
	V C1 .	$\theta_{Y ext{-}}$			85			VLC dark : 0.3V
	Red	Rx			0.628		-	
	Reu	Ry			0.332		-	
	Green	Gx			0.312		-	
CF only Color	Orccii	Gy	Viewing	Тур -	0.550	Typ +	-	
Chromaticity	Blue	Bx	normal angle	0.03	0.143	0.03	-	Under C light (CIE 1931)
(CIE 1931)	Diac	Ву	$\theta^{X} = \theta^{A} = 0_{\circ}$		0.111		-	
	White	Wx			0.307		-	
	VVIIILG	Wy			0.329		-	
	Color	Gamut		50%	55%		%	

*Note(1) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L255 / L0

L255: Luminance of gray level 255

L 0: Luminance of gray level 0

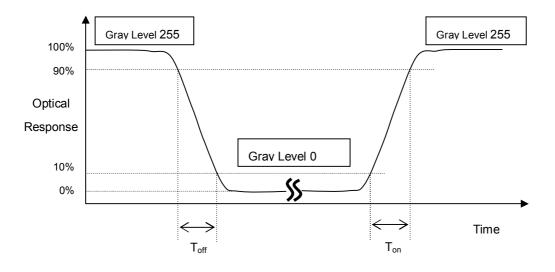
CR = CR(5)

CR (X) is corresponding to the Contrast Ratio of the point X at Figure in Note (5).

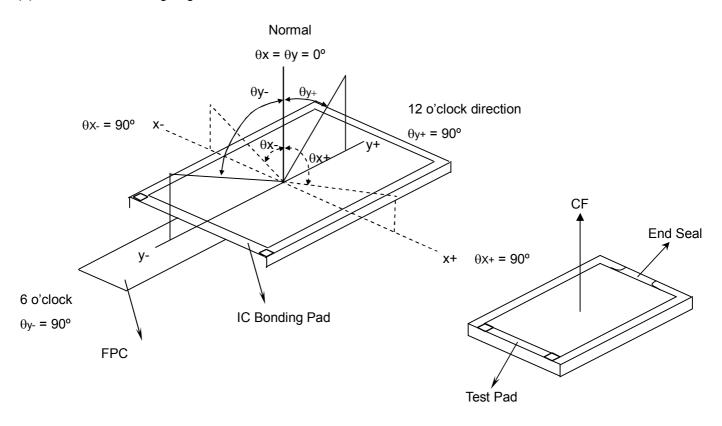
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*Note (2) Definition of Response Time (T_{on}, T_{off}) :



*Note(3) Definition of Viewing Angle

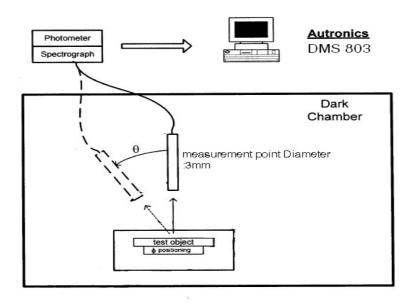


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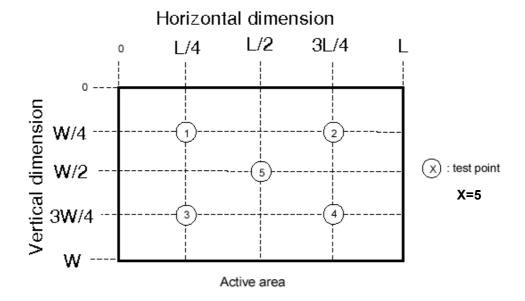


*Note (4) Measurement Set-Up:

The LCD module should be stabilized at a given temperature for 20 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 20 minutes in a windless room.



*Note (5)



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8. RELIABILITY SPECIFICATION

No.	Test Item	Test Condition	Check Time
1	High Temp Storage	Ta= 80°C	240 hrs
2	Low Temp Storage	Ta= -30°C	240 hrs
3	High Temp Operation	Ta= 70°C	240 hrs
4	Low Temp Operation	Ta= -20°C	240 hrs
5	High Temp & High Humidity Operation	Ta=60°C H=90%	240 hrs

Note:(1) Ta: Ambient temperature

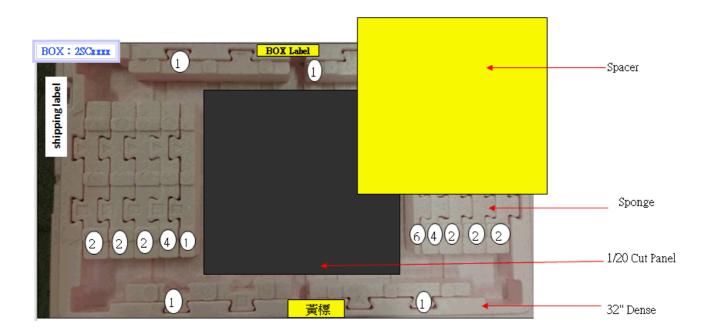
- (2) All judgments of display are performed after temp of panel returns to room temperature
- (3) Display function should be no change under normal operating condition.
- (4)Under no condensation of dew



9. PACKAGE FORM

9.1 CELL PACKAGE

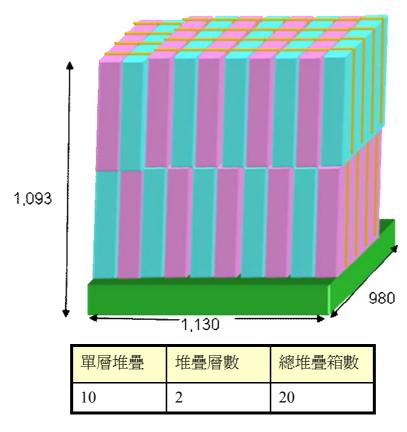
8.0" 1/20 CUT

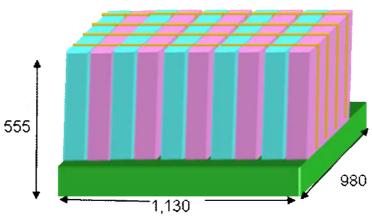


No.	Item	Mateial No.	Dimension(mm)	Unit	Weight	Qunaty	Remark
1	8" 1/20 Cut	2420M0802A01H	365.862*363.6*0.8	CUT	0.257	30	
2	32" Dense	D30301250	851*538*115	EA	1.78	1	
3	G6 8" 1/20 Cut Pad	8301B001LX000	365*367*0.5	Pcs	0.041	31	
4	No.1 Sponge	D51400770	25.5*280*55	EA	0.02105	5	
5	No.2 Sponge	D51400780	43*280*56	EA	0.0292	6	
6	No.4 Sponge	D51401130	33*280*46	EA	0.0245	2	
7	No.6 Sponge	D51402880	10*55*280	EA	0.0245	1	
8	Box ID Label	R16020101WB0	90*50	Pcs	NA		
9	Shipping Label	R1602101WD0	90*50	Pcs	NA		

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單層堆疊	堆疊層數	總堆疊箱數
10	1	10

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