# **Chimei-Innolux Corporation**

## **BT140GW02 V.5 LCD MODULE SPECIFICATION**

#### () Preliminary Specification

() Final Specification

Customer	Checked & Approved by
HP International Pte. Ltd.	

Approved by	Checked by	Prepared by
MKT	PD	PM
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Date: 2010/09/27

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Version: 3

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Record of Revision							
Version	ion Revise Date Page Content						
0	2010/05/06	AII	First Edition issued				
1	2010/05/19	16	Optical specifications				
		22	Label				
2	2010/08/05	15	Optical specifications				
3	2010/09/27	8	Add EBL data				
		20, 25	5 Label drawing & position				

 SPEC NO.
 BT140GW02 V.5

 PAGE
 3/29

Contents:	Page
1. General Specifications	4
2. Electrical Specifications	
2-1 Pin Assignment	5
2-2 Absolute Maximum Ratings	7
2-3 Electrical Characteristics	8
3. Optical Specifications	15
4. Reliability Test Items	18
5. Safety	19
6. Display Quality	19
7. Handling Precaution	19
8. Label Definition	20
9. Packing Form	23
10. Mechanical Drawings	24
Appendix	26

 SPEC NO.
 BT140GW02 V.5

 PAGE
 4/29

### **1. General Specifications**

NO.	ltem	Specification	Unit
1	Display resolution (pixel)	1366(H) X 768(V), HD resolution	
2	Active area	309.40(H) X 173.95(V)	mm
3	Screen size	14.0 inches diagonal	Inches
4	Pixel pitch	0.2265(H) X 0.2265(V)	mm
5	Color configuration	Stripe	
6	Overall dimension	324(W) X 192.5(H) X 5.2(D) (max)	mm
7	Weight	350Max.	Grams
8	Surface treatment	Anti Glare	
9	Input color signal	6 bit LVDS	
10	Display colors	262K (6 bit)	
11	Optimum viewing direction	6 o'clock	
12	Backlight	W-LED	
13	RoHS	RoHS compliance	

 SPEC NO.
 BT140GW02 V.5

 PAGE
 5/29

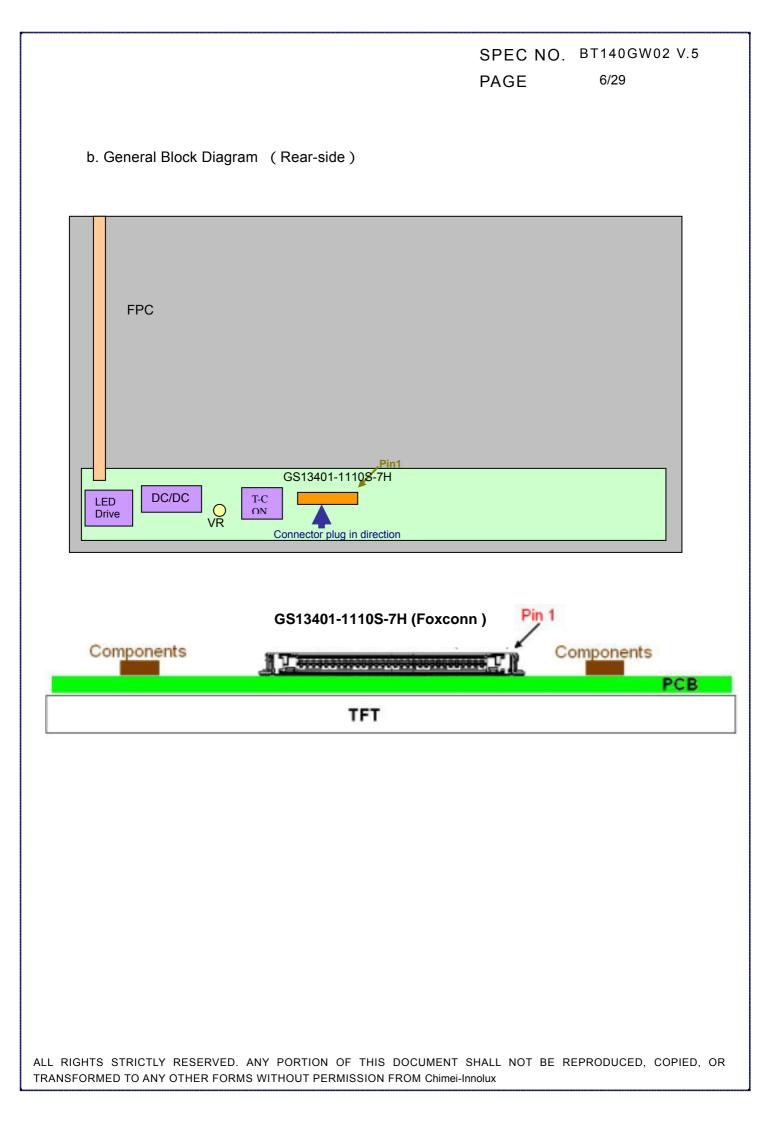
#### 2. Electrical Specifications

#### 2-1 Pin Assignment

a. Panel connector

Connector Part No: GS13401-1110S-7H (Foxconn ) User's connector Part No: 20453-040T-12(I-PEX) or equivalent

Pin No	Symbol	Description	Remark
1	NC	No connection (Reserve)	
2	V <sub>CC</sub>	Power Supply (+3.3V)	
3	V <sub>CC</sub>	Power Supply (+3.3V)	
4	V <sub>EDID</sub>	DDC Power +3.3V	
5	NC	No connection (Reserve)	
6		DDC Clock	
7		DDC Data	
8	Rxin0-	Differential Data Input	
9	Rxin0+	Differential Data Input	R0~R5,G0
10	GND	Ground	
11	Rxin1-	Differential Data Input	
12	Rxin1+	Differential Data Input	— G1~G5,B0,B1
13	GND	Ground	
14	Rxin2-	Differential Data Input	
15	Rxin2+	Differential Data Input	B2~B5,DE,Hsync,Vsync
16	GND	Ground	
17	CLK-	Differential Clock Input	
18	CLK+	Differential Clock Input	
19		No connection (Reserve)	
20	NC	No connection (Reserve)	
20	NC	No connection (Reserve)	
21	GND	Ground	
23	NC	No connection (Reserve)	
24	NC	No connection (Reserve)	
25	GND	Ground	
26	NC	No connection (Reserve)	
27	NC	No connection (Reserve)	
28	GND	Ground	
29	NC	No connection (Reserve)	
30	NC	No connection (Reserve)	
31	LED GND	LED Ground	
32	LED GND	LED Ground	
33	LED GND	LED Ground	
34	NC	No connection (Reserve)	
35	LED_PWM	PWM dimming signal input	
36	LED_EN	LED enable pin (3.3V)	
37	NC	No connection (Reserve)	
38	V_LED	LED power supply 6.0V~21V	
39	V_LED	LED power supply 6.0V~21V	
40	V_LED	LED power supply 6.0V~21V	



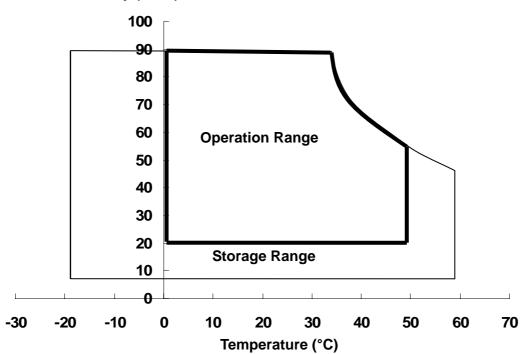
# SPEC NO. BT140GW02 V.5 PAGE 7/29

#### 2-2. Absolute Maximum Ratings

Parameter	Symbol	Values		Unit	Remark
Farameter	Symbol	Min.	Max.		Remark
Power input voltage	V <sub>CC</sub>	- 0.3	4.0	V	At 25°C
Signal input voltage	V <sub>IN</sub>	- 0.3	4.0	V	At 25°C
Operating temperature	T <sub>OP</sub>	0	50	°C	Note 1
Storage temperature	T <sub>ST</sub>	- 20	60	°C	Note 2
Re-screw		-	5	Times	
Assured torque at side mount		-	2	kgf.cm	

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C.

Note 2: The unit should not be exposed to corrosive chemicals.



**Relative Humidity (%RH)** 

 SPEC NO.
 BT140GW02 V.5

 PAGE
 8/29

#### 2-3. Electrical Characteristics

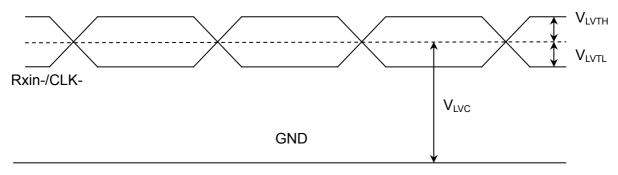
a. Typical operating conditions

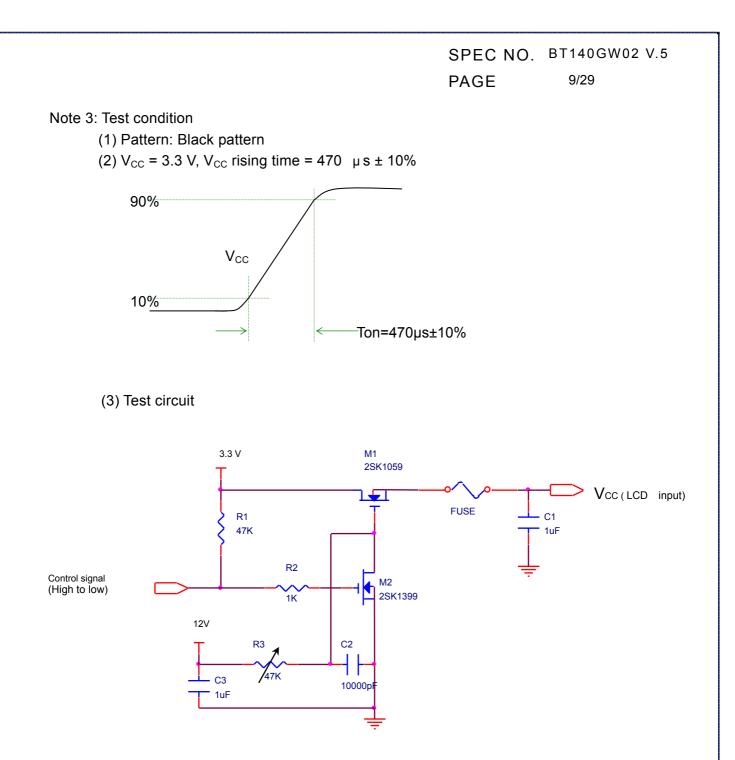
ltem		Symbol	Min.	Тур.	Max.	Unit	Remark
Power input voltage		V <sub>cc</sub>	3	3.3	3.6	V	
Permissive	e power input ripple	$V_{RF}$	-	-	0.1	V	
Power inp	ut current	I <sub>cc</sub>	-	260	300	mA	Note 1
Power con	sumption	Pc	-	0.85	1	Watts	Note 1
LED PWR	@60 Nits	Pc		0.7	0.75	Watts	
EBL Power		Pc		1.45	1.5	Watts	White patten + BL@60Nits
	Differential input high threshold voltage	$V_{LVTH}$	-	-	+100	mV	V <sub>LVC</sub> =1.2V, Note 2
LVDS	Differential input low threshold voltage	V <sub>LVTL</sub>	-100	-	-	mV	V <sub>LVC</sub> =1.2V, Note 2
interface	Common input voltage	V <sub>LVC</sub>	1.0	1.2	1.4	V	Note 2
	Terminating resistor	R⊤	90	100	110	ohm	
	Rush current	I <sub>Rush</sub>	-	-	1.5	А	Note 3
LE	D rush current	$I_{LED-Rush}$	-	-	3.0	А	Note 4

Note 1: The specified input current and power consumption are under the V<sub>cc</sub> =3.3 V, 25°C,  $f_V$ =60Hz (frame frequency) condition whereas mosaic pattern is displayed.

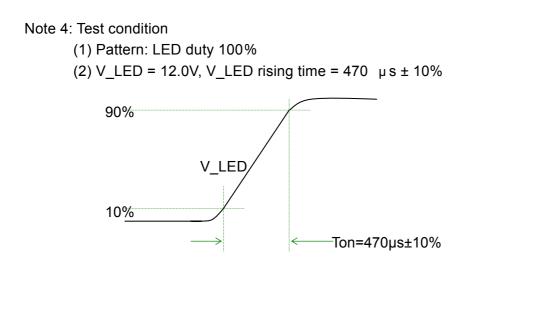
Note 2: LVDS waveform diagram

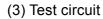
Rxin+/CLK+

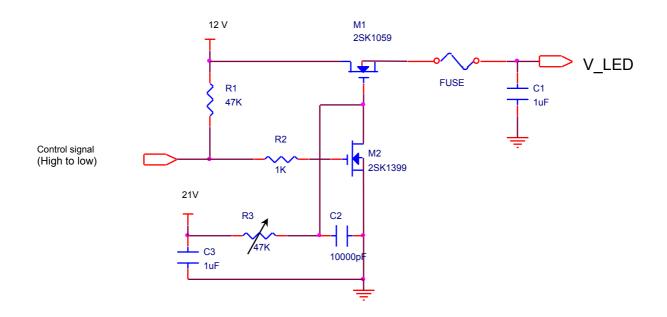




# SPEC NO. BT140GW02 V.5 PAGE 10/29







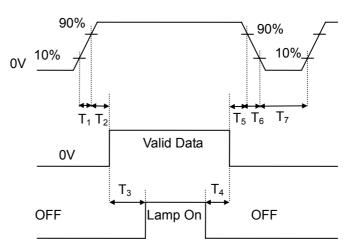
 SPEC NO.
 BT140GW02 V.5

 PAGE
 11/29

#### b. Power sequence

Power supply for LCD,  $V_{CC}$ 

Interface data signal, V<sub>i</sub> (LVDS signal of transmitter)



Backlight on/off

Power sequence timing table

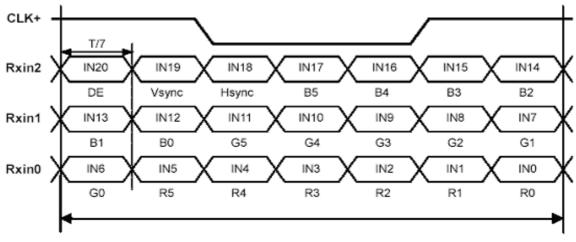
Parameter		Units		
Farameter	Min.	Тур.	Max.	Units
T <sub>1</sub>	0.5	-	10	ms
T <sub>2</sub>	0	-	50	ms
T <sub>3</sub>	200	-	-	ms
T <sub>4</sub>	200	-	-	ms
$T_5$	0	-	50	ms
T <sub>6</sub>	0.5	-	10	ms
T <sub>7</sub>	400	-	-	ms

 SPEC NO.
 BT140GW02 V.5

 PAGE
 12/29

c. Display color vs. input data signals

Signal Name	Description	Remark
R5	Red Data 5 (MSB)	Red-pixel data. Each red pixel's brightness data
R4	Red Data 4	consists of these 6 bits pixel data.
R3	Red Data 3	
R2	Red Data 2	
R1	Red Data 1	
R0	Red Data 0 (LSB)	
	Red-pixel Data	
G5	Green Data 5 (MSB)	Green-pixel data. Each green pixel's brightness
G4	Green Data 4	data consists of these 6 bits pixel data.
G3	Green Data 3	
G2	Green Data 2	
G1	Green Data 1	
G0	Green Data 0 (LSB)	
	Green-pixel Data	
B5	Blue Data 5 (MSB)	Blue-pixel data. Each blue pixel's brightness data
B4	Blue Data 4	consists of these 6 bits pixel data.
B3	Blue Data 3	
B2	Blue Data 2	
B1	Blue Data 1	
В0	Blue Data 0 (LSB)	
	Blue-pixel Data	



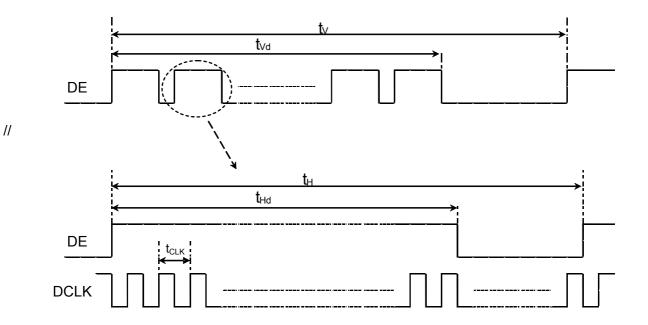
Signal for 1 DCLK cycle (t<sub>CLK</sub>)

# SPEC NO. BT140GW02 V.5 PAGE 13/29

### d. Input signal timing

#### Timing table

Description	Symbol	Min	Тур	Max	Unit
Frame rate		40	60		Hz
Clock freq.	1/t <sub>CLK</sub>	45	69.3	85	MHz
Line cycle time	t <sub>H</sub>	1456	1466	1492	t <sub>CLK</sub>
Line width-active	t <sub>Hd</sub>	1366	1366	1366	t <sub>CLK</sub>
Frame cycle time	t <sub>V</sub>	776	788	793	t <sub>H</sub>
V width-active	$t_{Vd}$	768	768	768	t <sub>H</sub>



#### e. Display position

D(1, 1)	D(2, 1)	 D(683, 1)	 D(1365, 1)	D(1366, 1)
D(1, 2)	D(2, 2)	 D(683, 2)	 D(1365, 2)	D(1366, 2)
:		 :		:
D(1, 384)	D(2, 384)	 D(683, 384)	 D(1365, 384)	D(1366, 384)
:		 :	 :	:
D(1, 767)	D(2, 767)	 D(683, 767)	 D(1365, 767)	D(1366, 767)
D(1, 768)	D(2, 768)	 D(683, 768)	 D(1365, 768)	D(1366, 768)

# SPEC NO. BT140GW02 V.5 PAGE 14/29

f. Backlight driving conditions

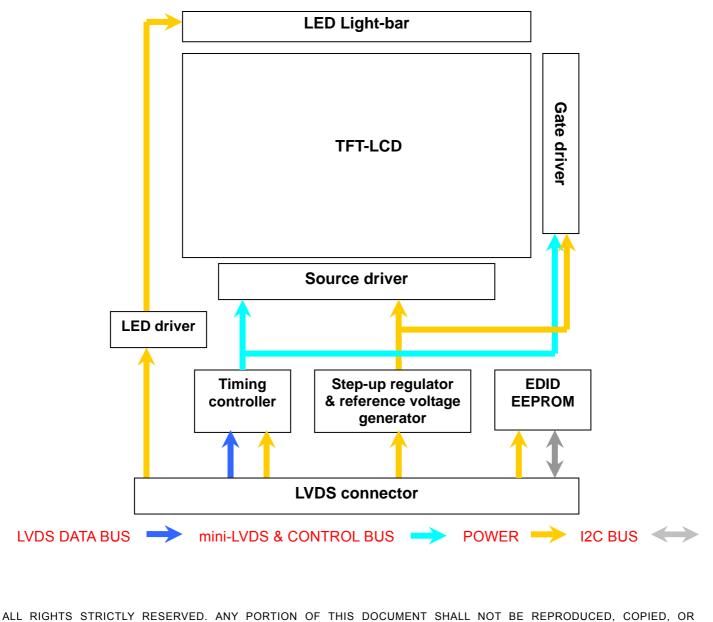
Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
LED forward voltage	V <sub>F</sub>	3	3.2	3.4	V <sub>rms</sub>	T = 25°C
LED forward current	١ <sub>F</sub>		20		mA <sub>rms</sub>	T = 25°C
Power consumption	P <sub>LED</sub>			3	W	T = 25°C
Input PWM frequency	<b>F</b> <sub>PWM</sub>	190		2000	Hz	T = 25°C
Duty ratio	-	5		100	%	Note 1
LED life time	-	15,000			Hr	T = 25°C , Note 2

Note 1: PWM duty cycle linearity guarantees 10~100%.

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Note 2: LED life time definition is brightness decrease to 50% of initial or abnormal lighting.

g. Module function block



#### 3. Optical specifications

#### Ambient temperature = 25°C

ltem	Symbol	Condition	S	pecificatio	on		
item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
Response time	Tr+Tf	θ= 0 °		8	16	ms	Note 3
Contrast ratio	CR	θ= 0 °		500			Note 2,4
	Тор	CR 10	15				
	Bottom	CR 10	30			daa	
Viewing angle	Left	CR 10	40			deg	Note 2,4,6
	Right	CR 10	40				
Brightness (5 points average)	YL		170	200		nit	Note 2,5
	W <sub>x</sub>			0.313			
	Wy			0.329			
	R <sub>x</sub>			0.586			
	Ry		-0.03	0.355	+0.03		Note 2
Color chromaticity (CIE)	G <sub>x</sub>	θ= 0 °	0.00	0.323	. 0.00		NOLE 2
	Gy			0.57			
	B <sub>x</sub>			0.163			
	By			0.141			
Color Gamut	NTSC	CIE1931		45		%	-
White uniformity	$\delta_{W(5)}$		0.8				Note 2,7
White uniformity	$\delta_{W(13)}$		0.65				
Cross talk	Ct				2%		Note 8

Note 1: To be measured in dark room.

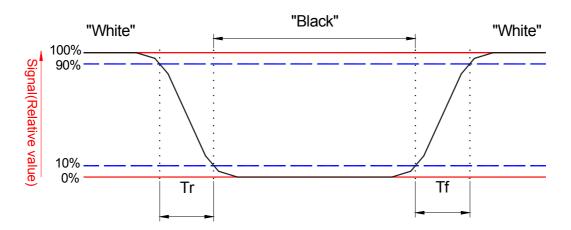
Note 2: To be measured with a viewing cone of 2°by Topcon luminance meter BM-5A.

Note 3: Definition of response time:

The output signals of BM-7 are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval is between 10% and 90% of amplitudes. Refer to figure as below.

 SPEC NO.
 BT140GW02 V.5

 PAGE
 16/29



Note 4: Definition of contrast ratio:

Contrast ratio is calculated with the following formula:

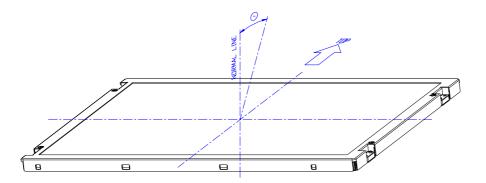
Contrast ratio (Avg of 5pts) =  $\frac{L \text{ white (Avg of 5pts.)}}{L \text{ Black (Avg of 5pts.)}}$ 

Note 5: Driving current for LED should be 20 mA.

Luminance is measured at the following thirteen points (1~13):

 $Y_{L} = (Y5+Y10+Y11+Y12+Y13) / 5$ 

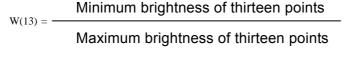
Note 6: Definition of viewing angle



Note 7: Definition white uniformity

W(5) = -

Luminance is measured at the following thirteen points (1~13):

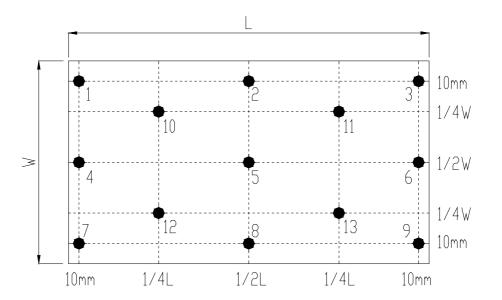


Minimum brightness of five points

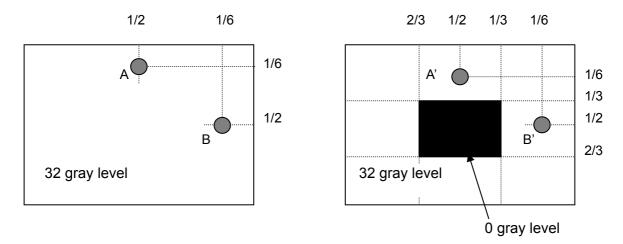
Maximum brightness of five points

SPEC NO.	BT140GW02 V.5
PAGE	17/29

13 point measuring locations refer to the point 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 and 13. 5 point measuring locations refer to the point 5, 10, 11, 12 and 13.



Note 8:



Unit: percentage of dimension of display area

 $I L_A-L_A$ ,  $I / L_A \times 100\%$  = 2% max.,  $L_A$  and  $L_{A'}$  are brightness at location A and A'  $I L_B-L_{B'} I / L_B \times 100\%$  = 2% max.,  $L_{B'}$  and  $L_{B'}$  are brightness at location B and B'

 SPEC NO.
 BT140GW02 V.5

 PAGE
 18/29

#### 4. Reliability test items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240 hours	Note 1	Note 2
Low temperature storage	-20°C, 240 hours	Note 1	Note 2
High temperature & high humidity operation	50°C, 80% RH, 240 hours (No condensation)	Note 1	Note 2
High temperature operation	50°C, 240 hours	Note 1	Note 2
Low temperature operation	0°C, 240 hours	Note 1	Note 2
Thermal Shock (Non-operation)	-25°C / 30 mins ~ 65°C / 30 mins 100 cycles	Note 1	Note 2
Electrostatic discharge (ESD)	150 pF, 330Ω, Contact: ±8kV, Air: ±15kV	Note 1	
Vibration (Non-operation)	1.5Grms, 10 to 500 Hz random; 0.5hr in each perpendicular axes ( X, Y, Z ).	Note 1	Note 2
Mechanical shock (Non-operation)	220G/2ms, Half sine wave, $\pm X$ , $\pm Y$ , $\pm Z$ one time for each direction	Note 1	Note 2

Note 1: Pass: Normal display image with no obvious non-uniformity and no line defect. Fail: No display image, obvious non-uniformity, or line defects. Partial transformation of the module parts should be ignored.

Note 2: Evaluation should be tested after storage at room temperature for more than one hour.

 SPEC NO.
 BT140GW02 V.5

 PAGE
 19/29

#### 5. Safety

#### 5-1. Sharp edge requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

#### 5-2. Materials

a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

#### b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V0 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V0 or better. The actual UL flammability rating will be printed on the printed circuit board.

#### c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

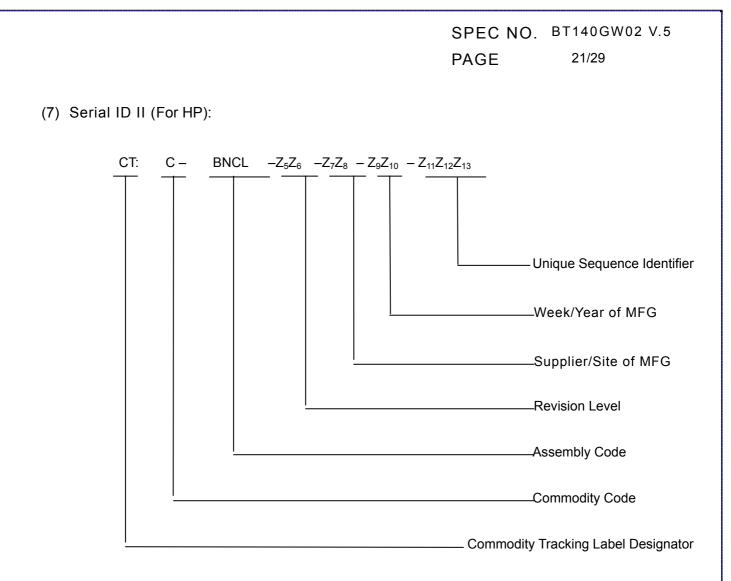
### 6. Display quality

The display quality of the color TFT-LCD module should be in compliance with the InnoLux incoming inspection standard.

### 7. Handling precaution

- (1) Do not apply rough force such as bending or twisting to the module during assembly.
- (2) To assemble or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel and backlight will be damaged.
- (4) Always follow the correct power sequence when LCD module is connecting and operating.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Do not disassemble the module.
- (7) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (8) It is dangerous that moisture come into or contacted the LCD module, because moisture may damage LCD module when it is operating.
- (9) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.

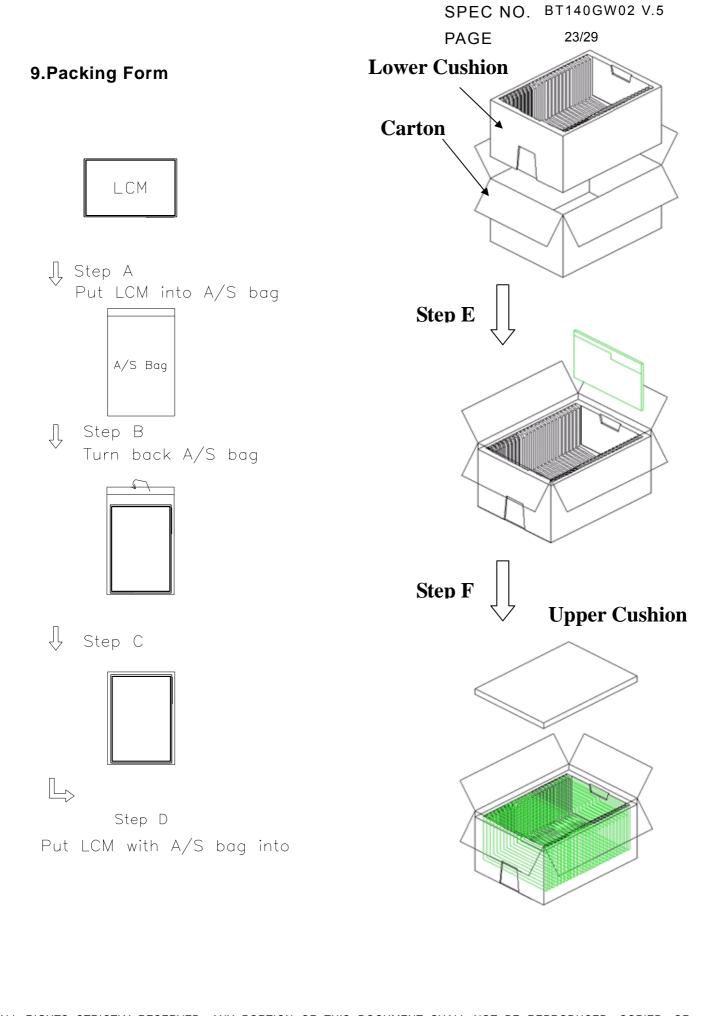
	SPEC NO. BT140GW02 V. PAGE 20/29
_abel Definition	
. Module label	
BT140GW02 V.5 AB1400002 50X	
XXXXXXYMDLNNN	E253847 23m
	2011
CT: C-BNCL –Z <sub>5</sub> Z <sub>6</sub> –Z <sub>7</sub> Z <sub>8</sub> –Z <sub>9</sub> Z <sub>10</sub> –Z <sub>11</sub> Z <sub>12</sub> Z <sub>13</sub>	
73mm	•
<ul> <li>(1) Model Number : BT140GW02</li> <li>(2) Version : V.5</li> <li>(3) Product Number : AB140000250X</li> <li>(4) Serial ID: <u>X X X X X X Y M D L N N N N</u></li> </ul>	Serial No.



Serial ID II includes the information as below:

- (a) Commodity Tracking Label Designator: an identifier for the printed , human readable number only, do not include the characters "CT:" within the barcode.
- (b) Commodity Code: C(LCD Display Module)
- (c) Assembly Code: BNCL
- (d) Revision Level: RR
- (e) Supplier/Site of MFG: 5C (Follow HP definition for CMI Fab)
- (f) Week/Year of MFG: WW
- (g) Unique Sequence Identifier:

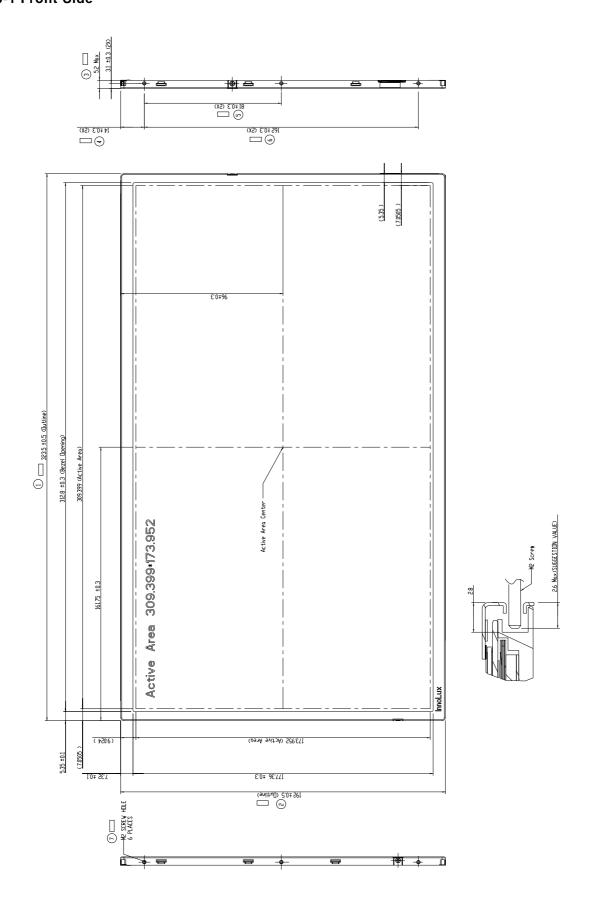
SPEC NO. BT140GW02 V.5 PAGE 22/29 8-1. Carton label 90.5mm **INNOLUX DISPLAY** Μ 20mm **BOX ID:** 53.5mm XXXXXXXYMDLNNN 55mm HP PN: 622560- J91 AB1400002 50X Model No. BT140GW02 V.5 Quantity: **XX PCS** MFG Date: XXXX/XX/XX QC: **MADE IN CHINA** (1) Model No. : BT140GW02 (2) Version: V.5 (3) Package Quantity: XX PCS (4) MFG Date: Year/Month/Date (5) Serial ID: X X X X X X X Y M D L N N N Serial No. Product stroke Year, Month, Date CMI Internal Use Revision CMI Internal Use



 SPEC NO.
 BT140GW02 V.5

 PAGE
 24/29

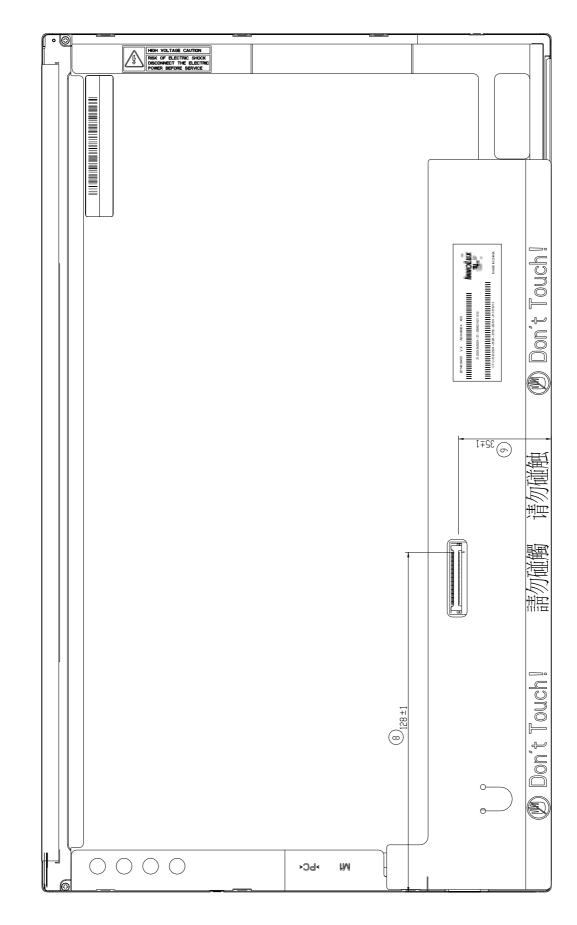
10. Mechanical Drawings 10-1 Front Side



 SPEC NO.
 BT140GW02 V.5

 PAGE
 25/29

#### 10-2 Rear side



 SPEC NO.
 BT140GW02 V.5

 PAGE
 26/29

#### Appendix: EDID Code

	Byte	Field Name and Comments	Value	
	(Hex)		(Hex)	( <b>Bin</b> )
Header		Header	<b>00</b>	00000000
		Header	FF	11111111
		Header	FF	11111111
		Header	FF	11111111
Ηe		Header	FF	11111111
		Header	FF	11111111
		Header	FF	11111111
		Header	00	00000000
		EISA manufacture code ( 3 Character ID ) " INL"	25	00100101
		EISA manufacture code (Compressed ASC )		11001100
+		Panel Supplier Reserved - Product Code	28	00101000
Vendor / Product EDID Version	0B	(Hex. LSB first)	00	00000000
ro		LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
IF		LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
lor		LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
end		LCD Module Serial No - Preferred but Optional ("0" If not used)	00	00000000
		Week of Manufacture00 weeksYear of Manufacture2010 years	00 14	00000000
	11	•		00010100
		EDID structure version # =       1         EDID revision # =       3	01	00000001
			03	00000011
rs.	14	Video input Definition = Digital signal	80 1E	10000000
Display arameters		Max H image size (Rounded cm) = $31 \text{ cm}$	1F	00011111
isp am		Max V image size (Rounded cm) = $18 \text{ cm}$	12	00010010
D Par		Display gamma = (gamma*100)-100 = Example:(2.2*100)-100=120 = 2.2 Gamma Feature Support (no_DPMS, no_Active Off/Very Low Power, RGB color display, Timing BLK	78	01111000
1	18	1,no_GTF)	UA	00001010
S		Red/Green Low Bits (RxRy/GxGy)	<b>87</b>	10000111
ate	1A	Blue/White Low Bits (BxBy/WxWy)	<b>F5</b>	11110101
din	1B	Red X   Rx = 0.580	94	10010100
Panel Color Coordinates	1C	Red Y   Ry = 0.340	57	01010111
Cc		Green X $Gx = 0.310$	<b>4F</b>	01001111
lor		Green Y $Gy = 0.550$	<b>8</b> C	10001100
Co	1F	Blue X $Bx = 0.155$	27	00100111
ləı	20	Blue Y By = 0.155	27	00100111
Dar	21	White X $Wx = 0.313$	50	01010000
ł	22	White Y $Wy = 0.329$	54	01010100

 SPEC NO.
 BT140GW02 V.5

 PAGE
 27/29

pa	23	Established timing 1 (00h if not used)		00	00000000
Established Timings					
imi	24	Established timing 2 (00h if not used)		00	00000000
Est	25	Manufacturer's timings (00h if not used)		00	00000000
	26	Standard timing ID1 (01h if not used)		01	00000001
	27	Standard timing ID1 (01h if not used)		01	00000001
	28	Standard timing ID2 (01h if not used)		01	00000001
	29	Standard timing ID2 (01h if not used)		01	00000001
Q	2A	Standard timing ID3 (01h if not used)		01	00000001
g I	2B	Standard timing ID3 (01h if not used)			00000001
un	2C	Standard timing ID4 (01h if not used)		01	00000001
Tin	2D	Standard timing ID4 (01h if not used)		01	00000001
.p.	2E	Standard timing ID5 (01h if not used)		01	00000001
Standard Timing ID	2F	Standard timing ID5 (01h if not used)		01	00000001
tan	30	Standard timing ID6 (01h if not used)		01	00000001
S	31	Standard timing ID6 (01h if not used)		01	00000001
	32	Standard timing ID7 (01h if not used)		01	00000001
	33	Standard timing ID7 (01h if not used)		01	00000001
	34	Standard timing ID8 (01h if not used)		01	00000001
	35	Standard timing ID8 (01h if not used)		01	00000001
	36	Pixel Clock/10,000 (LSB)	69.3 MHz @ 60Hz	12	00010010
	37	Pixel Clock/10,000 (MSB)		<b>1B</b>	00011011
	38	Horizontal Active (lower 8 bits)	1366 Pixels	56	01010110
	39	Horizontal Blanking(Thp-HA) (lower 8 bits)	100 Pixels	64	01100100
	<b>3A</b>	Horizontal Active / Horizontal Blanking(Thp-HA) (upper 4:4bits)		50	01010000
I	<b>3B</b>	Vertical Avtive	768 Lines	00	00000000
r #	<b>3</b> C	Vertical Blanking (Tvp-HA) (DE Blanking typ.for DE only panels)	20 Lines	14	00010100
pto	3D	Vertical Active : Vertical Blanking (Tvp-HA) (upper 4:4bits)		30	00110000
cri	3E	Horizontal Sync. Offset (Thfp)	48 Pixels	30	00110000
Sec	3F	Horizontal Sync Pulse Width (HSPW)	32 Pixels	20	00100000
Timing Descriptor #1	40	Vertical Sync Offset(Tvfp) : Sync Width (VSPW)	1 Lines : 4 Lines	14	00010100
nin	41	Horizontal Vertical Sync Offset/Width (upper 2bits)		00	00000000
Tir	42	Horizontal Image Size (mm)	309 mm	35	00110101
	43	Vertical Image Size (mm)	174 mm	AE	10101110
	44	Horizontal Image Size / Vertical Image Size		10	00010000
	45	Horizontal Border = 0 (Zero for Notebook LCD)		00	00000000
	46	Vertical Border = 0 (Zero for Notebook LCD)		00	00000000
	47	Non-Interlace, Normal display, no stereo, Digital Separate ( Vsync_N only note : LSB is set to '1' if panel is DE-timing only. H/V can be ig		18	00011000

 SPEC NO.
 BT140GW02 V.5

 PAGE
 28/29

	48	Flag	00	00000000
	49	Flag	00	00000000
	4A	Flag	00	00000000
	4B	Data Type Tag (Descriptor Defined by manufacturer)	00	00000000
	<b>4</b> C	Flag	00	00000000
01	4D	Descriptor Defined by manufacturer	20	00100000
#.	4D 4E	Descriptor Defined by manufacturer	20	00100000
oto	4F	Descriptor Defined by manufacturer	20	00100000
Timing Descriptor #2	50	Descriptor Defined by manufacturer	20	00100000
les	51	Descriptor Defined by manufacturer	20	00100000
S L	52	Descriptor Defined by manufacturer	20	00100000
nin	53	Descriptor Defined by manufacturer	20	00100000
Tin	54	Descriptor Defined by manufacturer	20	00100000
	55	Descriptor Defined by manufacturer	20	00100000
	56	Descriptor Defined by manufacturer	20	00100000
	57	Descriptor Defined by manufacturer	20	00100000
	58	Descriptor Defined by manufacturer	20	00100000
	59	Descriptor Defined by manufacturer	20	00100000
	5A	Flag	00	00000000
	5B	Flag	00	00000000
	<b>5</b> C	Flag	00	00000000
	5D	Data Type Tag ( ASCII String )	FE	11111110
	5E	Flag	00	00000000
	<b>5</b> F	ASCII String "I"	<b>49</b>	01001001
#3	60	ASCII String "N"	<b>4E</b>	01001110
tor	61	ASCII String "L"	<b>4</b> C	01001100
Timing Descript	62	ASCII String	<b>0</b> A	00001010
esc	63	ASCII String	20	00100000
Q	64	ASCII String	20	00100000
ing	65	ASCII String	20	00100000
lim	66	ASCII String	20	00100000
L	67	ASCII String	20	00100000
	68	ASCII String	20	00100000
	69	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC code 0Ah,set remaining char = 20h)	20	00100000
	6A	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC code 0Ah,set remaining char = 20h)	20	00100000
	6B	Manufacturer P/N(If<13 char> 0Ah, then terminate with ASC code 0Ah, set remaining char = 20h)	20	00100000

 SPEC NO.
 BT140GW02 V.5

 PAGE
 29/29

		Г		
	6C	Flag	00	00000000
	6D	Flag	00	00000000
	6E	Flag	00	00000000
	6F	Data Type Tag ( ASCII String )	FE	11111110
	70	Flag	00	00000000
#4	71	Monitor Name, stored as ASCII "B"	42	01000010
r f	72	Monitor Name, stored as ASCII "T"	54	01010100
Timing Descriptor #4	73	Monitor Name, stored as ASCII "1"	31	00110001
scr	74	Monitor Name, stored as ASCII "4"	34	00110100
De	75	Monitor Name, stored as ASCII "0"	30	00110000
Bı,	76	Monitor Name, stored as ASCII "G"	47	01000111
min	77	Monitor Name, stored as ASCII "W"	57	01010111
Ti	78	Monitor Name, stored as ASCII "0"	30	00110000
	79	Monitor Name, stored as ASCII "2"	32	00110010
	7A	Monitor Name, stored as ASCII "V"	56	01010110
	7B	Monitor Name, stored as ASCII "5"	35	00110101
	7C	Monitor Name, stored as ASCII	<b>0</b> A	00001010
	7D	Monitor Name, stored as ASCII	20	00100000
n	7E	Extension flag (# of optional 128 panel ID extension block to follow, $Typ = 0$ )	00	00000000
Checksum	7F	Check Sum (The 1-byte sum of all 128 bytes in this panel ID block shall = 0)	EB	11101011