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TITLE : BP070WX1-300
Product Specification
Rev. P0

HEFEI BOE OPTOELECTRONICS TECHNOLOGY

R2010-6053-O(1/3) A4(210 X 297)

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REV.	ECN No.	DESCRIPTION OF CHANGES	DATE	PREPARED
P0		Initial Release	2013.03.14	聂竹华

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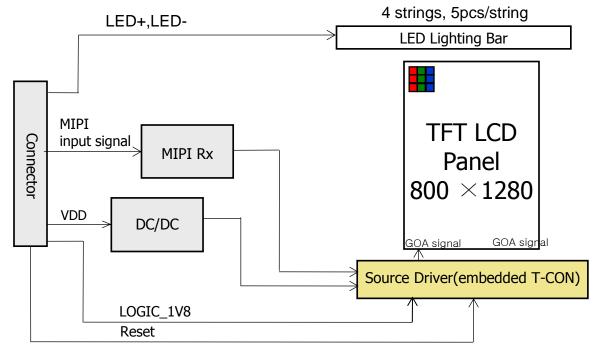
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1.0 GENERAL DESCRIPTION

1.1 Introduction

BP070WX1-300 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 7.0inch diagonally measured active area with WXGA resolutions (800 horizontal by 1280 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7M colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



1.2 Features

- 4 lanes MIPI Interface
- Thin and light weight
- Data enable signal mode
- 8-bit color depth, display 16.7M colors
- Low driving voltage and low power consumption
- RoHS Compliant

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1.3General Specification

The followings are general specifications at the model BP070WX1-300. (listed in Table 1.)

< Table 1. General Specifications >

Parameter	Specification	Unit	Remarks
Active area	94.2(W) x 150.72(H)	mm	
Number of pixels	800(H) ×1280(V)	pixels	
Pixel pitch	$39.25(H) \times RGB \times 117.75(V)$	μm	
Pixel arrangement	Pixels RGB stripe arrangement		
Display colors	16.7M(8bits)	colors	
Display mode	Normally Black		
Outline Dimension	99.70(H) \times 160.93(V) \times 2.25 (body)	mm	Tolerance: ±0.15 mm
Weight	70 g (typ.)	gram	Tolerance: ±3.5 g
	P _D : 0.48(max.)		
Power Consumption	P _{BL} : 1.02(max.)	Watt	Red Pattern
	P _{total} : 1.5(max.)		
Surface Treatment	3Н НС		

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2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

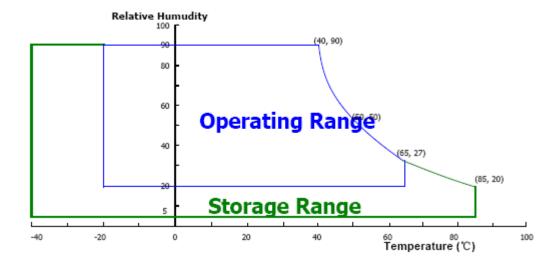
< Table 2. Absolute Maximum Ratings>

[VSS=GND=0V]

Parameter	Symbol	Min.	Max.	Unit	Remarks	
Power Supply Voltage	V _{DD}	-0.3	5.0	V	Note 1	
Power Supply For LED	V _{LED}	-	3.0	V	Note i	
Operating Temperature	T _{OP}	-20	+60	$^{\circ}$	Note 2	
Storage Temperature	T _{ST}	-20	+60	${\mathbb C}$	Note 2	

Notes:

- 1. Permanent damage to the device may occur if maximum values are exceeded functional operation should be restricted to the condition described under normal operating conditions.
- Temperature and relative humidity range are shown in the figure below.
 RH Max. (40 OC ≥ Ta)
 Maximum wet bulb temperature at 39 OC or less. (Ta > 40 OC) No condensation.



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3.0 ELECTRICAL SPECIFICATIONS

3.1 Electrical Specifications

< Table 3. Electrical specifications >

[Ta = 25 ± 2 °C]

Parameter		Cumbal	Values			Unit	Notes
		Symbol	Min	Тур	Max	Unit	Notes
Power Supply1 Inp	ut Voltage	VDD3V3	3	3.3	3.6	Vdc	
Power Supply1 Rip	ple Voltage	VRP	0	300	360	mV	
Power Supply1 Current		IVDD3V3	90	125	137	mA	
Power Supply2 Inp	Power Supply2 Input Voltage		1.7	1.8	1.9	Vdc	1
Power Supply2 Cu	rrent	I_LOGIC1V8	14	15	16	mA	
	@VDD3V3	P_VDD3V3	300.0	415.0	450.0	mWatt	
Power Consumption	@LOGIC1V8	P_LOGIC1V8	25.2	27.0	28.8	mWatt	
, wan	LOGIC TOTAL	P_TOTAL	325.2	442.0	478.8	mWatt	
Rush current		IRUSH	-	0.7	1	Α	2

Notes: 1. The supply voltage is measured and specified at the interface connector of LCM. The current draw and power consumption specified is for VDD=3.3V, Frame rate f_V =60Hz and Clock frequency = 68.4MHz. Test pattern of power supply current is: Typ. and Max. @Red Pattern

2. The duration of rush current is about 2ms and rising time of Power input is 1ms(min)

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3.2 Recommended Driving Condition for Backlight

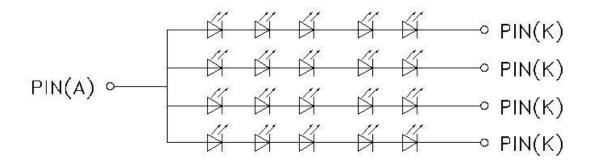
< Table 4. Electrical specifications for Backlight >

Items	Symbol	Min	Тур	Max	Unit	Remark
Forward Current	IF	-	68	-	mA	
Forward Voltage	VF	14	14.5	15	٧	20LEDs (5LED Serial, 4
Backlight Power Consumption	-	952	986	1020	mW	LED Parallel)
Operating Life Time	-	20000		-	Hrs	IF = 20mA Note 3

Note1: The LED driving condition is defined for each LED module (5 LED Serial, 4 LED Parallel). For each LED: IF (1/4) =17mA, VF (1/3) =3.0V

Note2: Under LCM operating, the stable forward current should be inputted. And forward voltage is for reference only.

Note3: IF is defined for one channel LED. Optical performance should be evaluated at Ta=25 ℃ only If LED is driven by high current, high ambient temperature & humidity condition. The life time of LED will be reduced. Operating life means brightness goes down to 50% initial brightness. Typical operating life time is estimated data.



3.3 LED Driver

- With LED Driver on Customer System , We only have one connector on FPC .

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4.0 INTERFACE CONNECTION

- 4.1 Module Input Signal & Power
- FPC Signal interface: 34 Pin.

Table 5 I CM Module Input Connector Pin Configuration

		< Tal	ole 5. LCM Module Input Con	nector Pin Conf	iguration	>	
Pin No	Symbol	I/O	Description	Remark			
1	VLED	Р	LED Anode				
2	VLED	Р	LED Anode]		
3	VLED	Р	LED Anode				
4	VLED	Р	LED Anode]		
5	FB1	Р	LED Cathode				
6	FB2	Р	LED Cathode]		
7	FB3	Р	LED Cathode				
8	FB4	Р	LED Cathode				
9	CABC	0	CABC PWM signal output				
10	RESET	I	Reset signal to LCD				
11	VPP	Р	NC	Internal use only	VLED -	2	
12	GND	Р	Ground		FB2	6	
13	MIPI 2P	I	MIPI differential data2 input plus		FB4 —	8 10	
14	GND	Р	Ground		RESET —	12	•
15	MIPI 2N	I	MIPI differential data2 input minus		GND -	14 16	
16	MIPI 1P	I	MIPI differential data1 input plus		D1P —	18	
17	GND	Р	Ground		GND -	20	
18	MIPI 1N	I	MIPI differential data1 input minus		DOP —	22 24	2
19	MIPI CLKP	I	MIPI differential clock input plus		GND —	26	:
20	GND	Р	Ground		D3P —	28 30	:
21	MIPI CLKN	ļ	MIPI differential clock input minus			32	;
22	MIPI 0P	I	MIPI differential data0 input plus		VGH -	34	;
23	GND	Р	Ground				
24	MIPI 0N	ļ	MIPI differential data0 input minus				
25	NC	-	NC				
26	GND	Р	Ground				
27	LOGIC_1V8	Р	1.8V logic signal to LCD				
28	MIPI 3P	ļ	MIPI differential data3 input plus				
29	VDD3V3	Р	3.3V power input to LCD				
30	MIPI 3N	I	MIPI differential data3 input minus				
31	VDD3V3	Р	3.3V power input to LCD				
32	GND	Р	Ground]		
33	VDD3V3	Р	3.3V power input to LCD				
34	VGH	0	VGH	Only for detecting the VGH voltage			

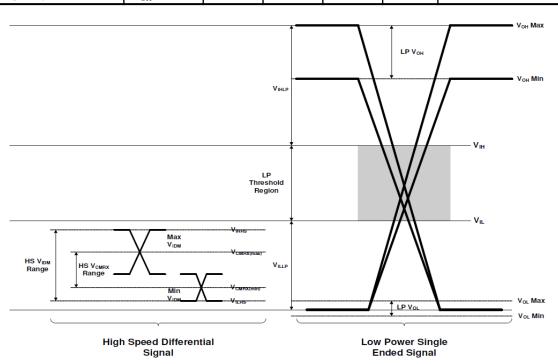
VLED VLED FB1 FB3 CABC VPP D2P D2N GND CLKP CLKN GND NC LOGIC_1V8 LOGIC_3V3 LOGIC_3V3 LOGIC_3V3

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5. Electrical Specification

5.1 Timing Parameters

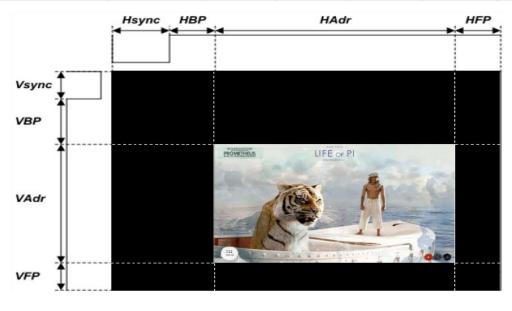
Parameter	Symbol	Min	Тур	Max	Unit	Condition
MIPI digital operation current	I _{VCCIF}	14	15	16	mA	-
MIPI digital stand-by current	I _{VCCIFST}	-	200	-	uA	-
MIPI Characteristics for High S	peed Receiver					
Single-ended input low voltage	V _{ILHS}	-40	-	-	mV	
Single-ended input high voltage	V _{IHHS}	-	-	460	mV	
Common-mode voltage	V _{CMRXDC}	155	-	330	mV	
Differential input impedance	Z _{ID}	80	100	125	Ω	
HS transmit differential voltage($V_{OD}=V_{DP}-V_{DN}$)	V _{OD}	85	200	250	mV	
MIPI Characteristics for Low P	ower Receiver					
Pad signal voltage range	$V_{\rm I}$	-50	-	1350	mV	
Ground shift	V _{GNDSH}	-50	-	50	mV	
Output low level	V _{OL}	-150	-	150	mV	
Output high level	V _{OH}	1.1	1.2	1.3	V	



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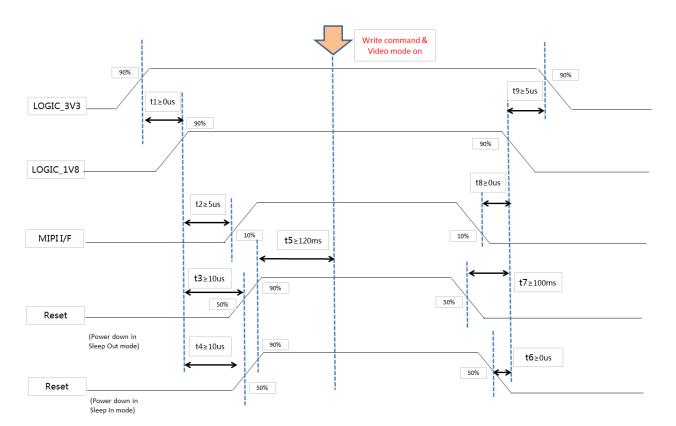
5.2 MIPI Timing Parameter

Item	Symbol	Min	Тур	Max	Unit	Remarks
Pixel CLK	Tpixclk		68.43		MHz	-
MIDLOLV	Period	4	4.44	4.8	ns	-
MIPI CLK	Frequency	208	225	250	MHz	-
11	Period	16			Tpixclk	-
Hsync	Frequency		77.76		KHz	-
V	Period	4			Line	-
Vsync	Frequency		60	-	Hz	-
Horizontal Active	HAdr		800	-	Tpixclk	-
Display Term	HBP	48			Tpixclk	-
rgb vporch 8 4 4	HFP	16			Tpixclk	-
rgb hporch 16 48 16	Total		880		Tpixclk	-
	Vadr		1280	-	Line	-
Vertical Active	VBP	4			Line	-
Display Term	VFP	8			Line	-
	Total		1296		Line	-



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5.3. Power Sequence



Notes:

- 1. When the power supply VDD3V3 is 0V, keep the level of input signals on the low or keep high impedance.
- Do not keep the interface signal high impedance when power is on.Back Light must be turn on after power for logic and interface signal are valid.

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6.0 OPTICAL SPECIFICATIONS

The test of Optical specifications shall be measured in a dark room (ambient luminance ≤ 1 lux and temperature $= 25\pm 2\,^{\circ}\text{C}$) with the equipment of Luminance meter system (CA-310、BM-5A) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of θ and Φ equal to 0° . We refer to $\theta_{\emptyset=0}$ ($=\theta_3$) as the 3 o'clock direction (the "right"), $\theta_{\emptyset=90}$ ($=\theta_{12}$) as the 12 o'clock direction ("upward"), $\theta_{\emptyset=180}$ ($=\theta_9$) as the 9 o'clock direction ("left") and $\theta_{\emptyset=270}$ ($=\theta_6$) as the 6 o'clock direction ("bottom"). While scanning θ and/or \emptyset , the center of the measuring spot on the Display surface shall stay fixed. The measurement shall be executed after 30 minutes warm-up period. VDD shall be 3.3V +/-10% at 25°C. Optimum viewing angle direction is 6 'clock.

Para	meter	Symbol	Condition	Min	Тур	Max	Unit	Remark
	Horizontal	Θ_3		80	89	-	Deg.	
Viewing Angle	поптан	Θ_9	CR > 10	80	89	-	Deg.	Note 1
Migic	Vertical	Θ_{12}	CK > 10	80	89	-	Deg.	Note 1
	vertical	Θ_6		80	89	-	Deg.	
Color	Gamut			45	50	55	%	-
Contr	ast ratio	CR		700	900	1100		Note 2
Luminanc	e of White	$Y_{\rm w}$		360	450	540	cd/m ²	Note 3
White lumina	nce uniformity	ΔΥ9		80	85	-	%	Note 4
White	CCT			6450	6950	7650	K	Note 5
Balance	Δuv		$\Theta = 0$ °	-0.005	0.0025	0.01	ı	Note 3
	Red	R_{x}	(Center)	TYP.	0.603	TYP.		
	Red	R_{y}	Normal	- 0.02	0.345	+ 0.02		
Reproduction	Cuan	G_{x}	Viewing Angle	TYP.	0.325	TYP.		Note 6
of color	Green	G_{y}	Aligic	- 0.03	0.563	+ 0.03		Note 6
	Dlas	B_x		TYP.	0.154	TYP.		
	Blue	\mathbf{B}_{y}		- 0.02	0.117	+ 0.02		
Response Time		T_{g}		-	30	50	ms	Note 7
Gamm	a Scale			2.2	2.4	2.6		

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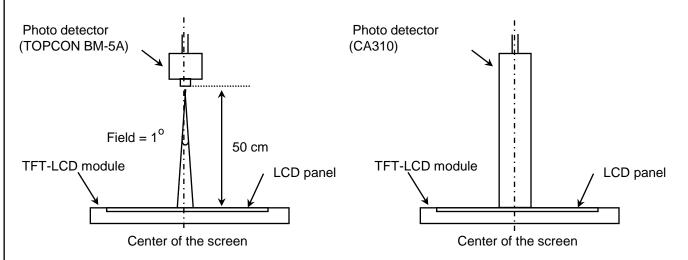
Note:

- 1. Viewing angle is the angle at which the contrast ratio is greater than 10. The viewing angles are determined for the horizontal or 3, 9 o'clock direction and the vertical or 6, 12 o'clock direction with respect to the optical axis which is normal to the LCD surface (see FIGURE 1).
- 2. Contrast measurements shall be made at viewing angle of Θ = 0 and at the center of the LCD surface. Luminance shall be measured with all pixels in the view field set first to white, then to the dark (black) state . (see FIGURE 1) Luminance Contrast Ratio (CR) is defined mathematically.

- 3. Center Luminance of white is defined as luminance values of 1point average across the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display. The luminance is measured by CA310 when the LED current is set at 17mA (FIGURE 2).
- 4. The White luminance uniformity on LCD surface is then expressed as : $\Delta Y = Minimum Luminance of 9points / Maximum Luminance of 9points (see FIGURE 3).$
- 5. The color chromaticity coordinates specified in Table 5 shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 6. The color chromaticity coordinates specified in Table 4. shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 7. The electro-optical response time measurements shall be made as FIGURE 3 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tr, and 90% to 10% is Td (see FIGURE 4).

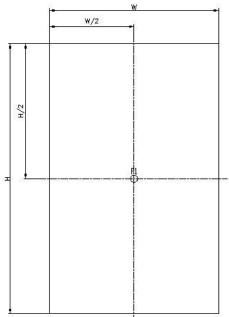
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Figure 1. Measurement Set Up



View angel range measurement setup Luminance , uniformity and color measurement setup

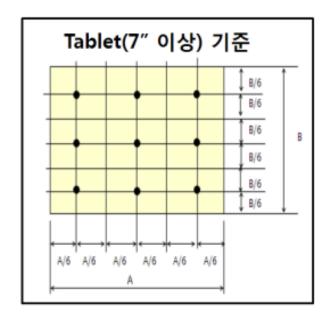
Figure 2. White Luminance and Uniformity Measurement Locations (Center point)



Center Luminance of white is defined as luminance values of center point across the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display.

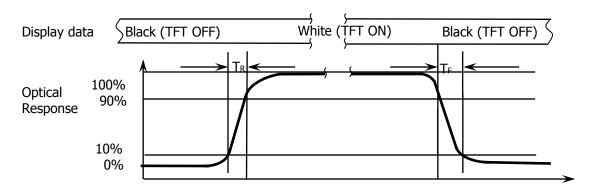
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Figure 3. Uniformity Measurement Locations (9 points)



The White luminance uniformity on LCD surface is then expressed as : $\Delta Y9$ = Minimum Luminance of five points / Maximum Luminance of five points (see FIGURE 3)

Figure 4. Response Time Testing



The electro-optical response time measurements shall be made as shown in FIGURE 3 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tr and 90% to 10% is Td.

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7.0 MECHANICAL CHARACTERISTICS

7.1 Dimensional Requirements

FIGURE 4 (located in Appendix) shows mechanical outlines for the model BA070WS1-200. Other parameters are shown in Table 12.

< Table 12. Dimensional Parameters>

Parameter	Specification	Unit
Dimensional outline	$162.45(V) \times 101.22(H) \times 2.25 \text{ (body) (typ.)}$	mm
Weight	67 (typ.)	gram
Active area	94.2(W) x 150.72(H)	mm
Pixel pitch	$0.11775(H) \times 0.11775(V)$	mm
Number of pixels	$800(H) \times 1280(V)$ (1 pixel = R + G + B dots)	pixels
Back-light	3806,20ea	_

7.2 Mounting

See FIGURE 6. (shown in Appendix)

7.3 Surface Treatment of Polarizer.

The surface treatment of the CF POL is 3H HC.

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8.0 RELIABLITY TEST

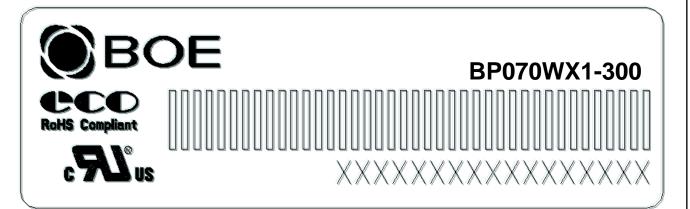
The Reliability test items and its conditions are shown in below.

<Table 13. Reliability Test Parameters >

No	Test Items	Conditions
1	High temperature storage test	$Ta = 85 ^{\circ}\text{C}$, 24 hrs
2	Low temperature storage test	Ta = -40°C, 24 hrs
3	High temperature & high humidity operation test	Ta = 60 °C, 90%RH, 96 hrs
4	High temperature operation test	$Ta = 60 ^{\circ}\text{C}$, 24 hrs
5	Low temperature operation test	$Ta = -20^{\circ}C$, 24 hrs
6	8585 Test	$Ta = 85^{\circ}C$, 85% RH, 120 hrs
7	Accelerated life test	$Ta = -10^{\circ}C \leftrightarrow 65^{\circ}C$, 93%RH, 5cycle
8	Thermal shock	$Ta = -40^{\circ}C \leftrightarrow 85^{\circ}C $ (2 hrs), 30 cycle
9	Image Sticking test	5*8 Chess, Aging 1hr, Ta= 60 °C (5min Level)
10	Cold bubble test	Ta= -20°C, 5 times dropping (height of 10cm) iron ball(5.4g, φ 11.0)
11	Vibration test (non-operating)	Packing Vibration: 0.015Grms, 5~200Hz: -6db/oct, 200~500Hz
		Random X, Y, Z per 2 hrs

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9.0 Product Serial Number



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Type designation

No 1. Control Number

No 2. Rank / Grade

No 3. Line classification

No 4. Year (10: 2010, 11: 2011, ...)

No 5. Month (1, 2, 3, ..., 9, X, Y, Z)

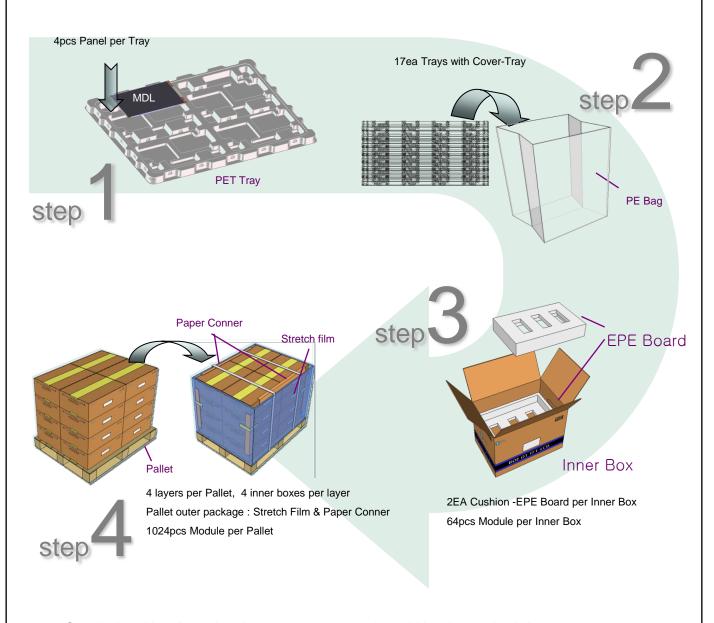
No 6. Product Identification (FG)

No 7. Serial Number

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10.0 Packing Form

10.1. Description of packing procedure



% Standard packing dimensions is 520×420×252mm, it would be observed strictly.

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BOE	TFT- LCD PRODUCT	P0	2014.03.14
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10.2 Label (1) Product label



BP070WX1-300





序 列 号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
代码	4	F	Р	3	1	2	7	3	8	0	0	0	0	1	Е	Е	J
描述	GBI 码	N代	等 级	В3	年	份	月	FC	G Cod	e后四位 序列号							

(2) Box label

Label Size: 510mmL×410mmW×252mmH

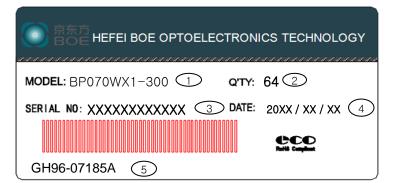
Contents

Model: BP070WX1-300

Q`ty: 64pcs Module Q`ty in one box

Serial No.: Box Serial No. See next figure for detail description.

Date: Packing Date
Internal use of Product



Remark:

- 1. FG-CODE
- 2. Box 产品数量
- 3. Box ID, 编码规则如下
- 4. Box Packing 日期
- 5. 产品物料号

序 列 号	1	2	3	4	5	6	7	8	9	10	11	12	13
代码	4	٦	Р	3	1	2	7	0	0	0	1	Ι	D
描 描述	GBN	代码	等 级	В3	年	份	月	Rev	序列号				

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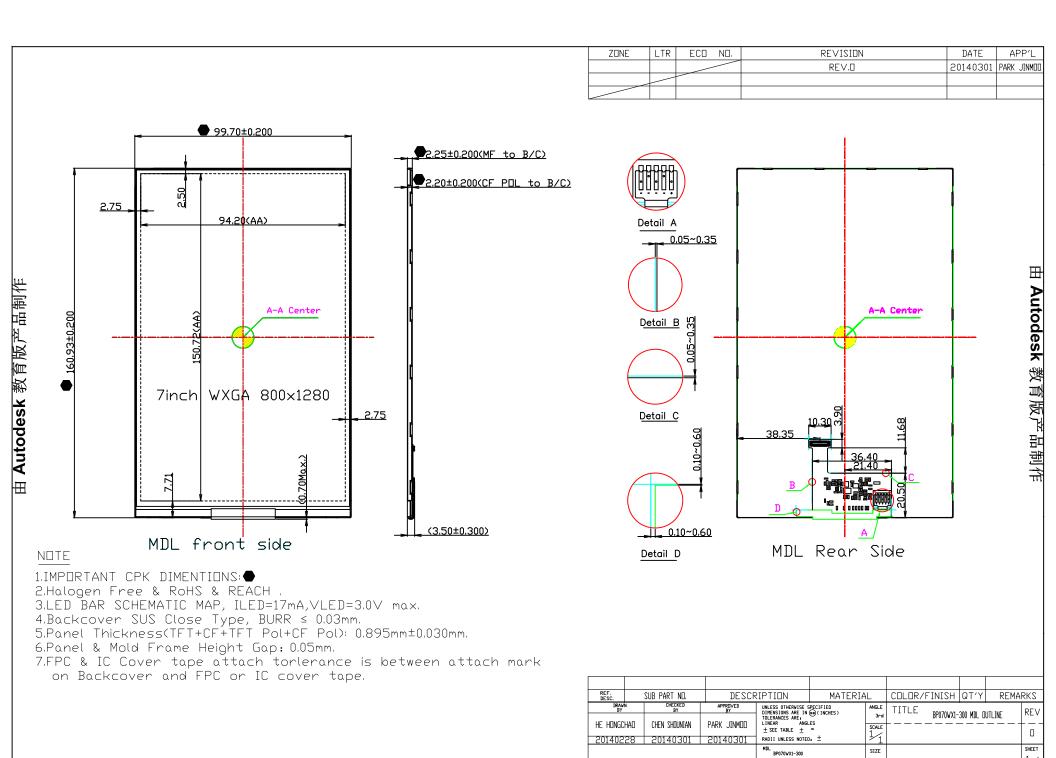
京东方	PRODUCT GROUP	REV	ISSUE DATE		
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11.0 HANDLING & CAUTIONS

- (1) Cautions when taking out the module
 - Pick the pouch only, when taking out module from a shipping package.
- (2) Cautions for handling the module
 - As the electrostatic discharges may break the LCD module, handle the LCD module with care. Peel a protection sheet off from the LCD panel surface as slowly as possible.
 - As the LCD panel and back light element are made from fragile glass material, impulse and pressure to the LCD module should be avoided.
 - As the surface of the polarizer is very soft and easily scratched, use a soft dry cloth without chemicals for cleaning.
 - Do not pull the interface connector in or out while the LCD module is operating.
 - Put the module display side down on a flat horizontal plane.
 - Handle connectors and cables with care.
- (3) Cautions for the operation
 - When the module is operating, do not lose CLK, ENAB signals. If any one of these signals is lost, the LCD panel would be damaged.
 - Obey the supply voltage sequence. If wrong sequence is applied, the module would be damaged.
- (4) Cautions for the atmosphere
 - Dew drop atmosphere should be avoided.
 - Do not store and/or operate the LCD module in a high temperature and/or humidity atmosphere. Storage in an electro-conductive polymer packing pouch and under relatively low temperature atmosphere is recommended.
- (5) Cautions for the module characteristics
 - Do not apply fixed pattern data signal to the LCD module at product aging.
 - Applying fixed pattern for a long time may cause image sticking.
- (6) Other cautions
 - Do not disassemble and/or re-assemble LCD module.
 - Do not re-adjust variable resistor or switch etc.
 - •When returning the module for repair or etc., Please pack the module not to be broken. We recommend to use the original shipping packages.

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