



# NAN YA PLASTICS CORPORATION

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SPECIFICATION OF  LCD MODULE  PRODUCT NO. : LVC95Z780V1S_
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SPEC. NO. : LM780-1-0

CUSTOMER
APPROVED BY
DATE:

EDITED ON : June. 19, 2008

LCD DEPARTMENT  
ELECTRONIC MATERIALS DIVISION  
NAN YA PLASTICS CORPORATION  
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Q.C. DEPT.	DESIGN MANAGER	DESIGN CHECK	DESIGNER
			J.P Weng



**SPECIFICATION**

**1.MECHANICAL DATA**

NO.	ITEM	CONTENTS	UNIT
1	Product No.	LVC95Z780V1S_	—
2	Module Size	105.5 (W) x 67.2 (H) x 5.2 (D)	mm
3	Dot Pitch	0.198 (W) x 0.198 (H)	mm
4	Active Area	95.04 (W) x 53.856 (H)	mm
5	Number of Dots	480 RGB (W) x 272 (H)	Dot
6	Duty	1/272	—
7	LCD Display Mode	TFT 4.3' Module	—
8	Rear Polarizer	Color Transmissive Type	—
9	Viewing Direction	6	O'clock
10	Backlight	LED	—
11	Controller	Source Driver: HX8227-A, Gate Driver: HX8655-A	—
12	DC/DC Converter	Included	—
13	Touch Panel	Included	—
14	Weight	73.5 (Approx.)	g

NOTE:

L V C 9 5 Z 7 8 0 V 1 S  
(1) (2) (3) (4) (5) (6)

NO.	ITEM	SYMBOL	DEFINITION
(1)	Backlight	C	LED
(2)	Reflective/Transmissive	Z	Transmissive
(3)	Mode/View Angle	V	Color Module, 6 O'clock
(4)	Option	1	Module Version Number
(5)		S	RoHS Compliance
(6)		T	Test Sample

Nan Ya guarantees that this project doesn't include  
any materials (6 materials) or includes less than specified  
quantities which are regulated by RoHS Compliance.

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## 2.ABSOLUTE MAXIMUM RATINGS

### 2-1.ELECTRICAL ABSOLUTE RATINGS

DGND=0V

ITEM	SYMBOL	MIN.	MAX.	UNIT	COMMENT
Power Supply for Logic	VCC-GND	-0.3	6	V	
Supply Voltage For LCD Drive	AVDD-GND	-0.3	6	V	
Input Voltage	VI	-0.3	VCC	V	
Static Electricity	—	—	—	—	Note 1

Note 1 LCM should be grounded during handling LCM.

### 2-2.ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS

ITEM	WIDE TEMP.			
	OPERATING		STORAGE	
	MIN.	MAX.	MIN.	MAX.
Ambient Temperature(°C)	-20	70	-30	70
Humidity (Without Condensation)	Note 2,4		Note 3,4	

Note 2  $T_a \leq 70^\circ\text{C}$  : 75%RH MAX.

Note 3 Please refer to item of reliability test.

Note 4 Background color will change slightly depending on ambient temperature.  
That phenomenon is reversible.

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### 3.ELECTRICAL CHARACTERISTICS

#### 3-1.ELECTRICAL CHARACTERISTICS OF LC:

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Power Supply for Logic	VCC	Ta=25°C	2.3	2.5	2.7	V	
Power Supply for LCD Drive	AVDD		4.8	5.0	5.2		
Power Supply Current	Icc		—	5	10	mA	
	I <sub>AVDD</sub>		—	16	25		
Input Voltage	V <sub>IH</sub>	H Level	0.7VCC	—	VCC	V	
	V <sub>IL</sub>	L Level	0	—	0.3VCC		
Recommended LC Driving Voltage for 25°C	V <sub>GH</sub>	TFT Panel Duty = 1/240	Note 1	—	15.0		—
	V <sub>GL</sub>		Note 2	—	-10.0		—
	V <sub>COMH</sub>		Note 3	2.5	—		5.5
	V <sub>COML</sub>			-2.0	—		0
Surface Luminance	L IAK=20mA	Pattern : White	220	240	—	cd/m <sup>2</sup>	
		Pattern : Black	—	1.0	—		

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3-2.ELECTRICAL CHARACTERISTICS OF BACKLIC

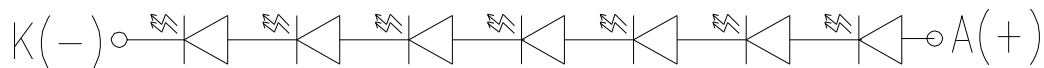
Used LED Rating (Constant Current Driving)

Ta=25°C

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Peak forward current	IP	—	—	30	mA	—
Maximum reverse voltage	VR	—	—	5	V	—
Applied forward current	IAK	—	20	—	mA	—
Applied forward voltage	VAK	21	23.1	26.6	V	—
LED power consumption	PF	—	—	0.756	W	—
LED life time	LL	—	10000	—	Hrs	at IAK=20mA (*1)

(\*1) LED life time is defined as follows : The final brightness is at 50% of original brightness.

$$I_{AK} = 20\text{mA}$$



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**SPECIFICATION**

3-3.ELECTRICAL CHARACTERISTICS OF TOUCH PANEL

Used Touch Screen Rating

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	REMARK
Operating Temperature	T <sub>OPR</sub>	—	-20	70	°C	20%~85% R.H. Max. Avoid Dew Condensation at Any Time
Storage Temperature	T <sub>STO</sub>	—	-30	80		
Resistance of Terminal Electrodes	R <sub>TTE</sub>	500	—	1400	Ω	X Electrode
		150	—	600		Y Electrode
Linearity	L	—	—	1.5	%	—
Insulation Resistance	R <sub>off</sub>	20	—	—	MΩ	V <sub>dc</sub> =25V
Transparency	T	82	—	—	%	According to JIS-K7015
Surface Hardness	SH	3	—	—	H	According to JIS-K5400

Test condition : Touch screen is placed horizontally in a vessel and no power is supplied to T/P.

Normal state is temperature : 25±10°C , relative humidity : 60±25 RH.

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## 4.OPTICAL CHARACTERISTICS

### 4-1 Optical Char. of LCD Panel

Parameter	SYMBOL	Values			Unit	Note
		Min.	Typ.	Max.		
Response Time	Tr	—	15	20	ms	NOTE 2,3
	Tf	—	35	50		
Contrast Ratio	C/R	200	300	—	—	*a)
$\theta$ (Viewing Angle)	CR $\geq 10$	12 O'Clock	—	35	—	NOTE 3,5
		6 O'Clock	—	65	—	
$\varphi$ (Viewing Angle)		9 O'Clock	—	70	—	
		3 O'Clock	—	70	—	
Degree of Saturation	NTSC	—	50	—	%	

\*a) Contrast Ratio(CR) is define mathematically as :

$$\text{Contrast Ratio} = \frac{\text{Surface Luminance with all white pixels}}{\text{Surface Luminance with all black pixels}}$$

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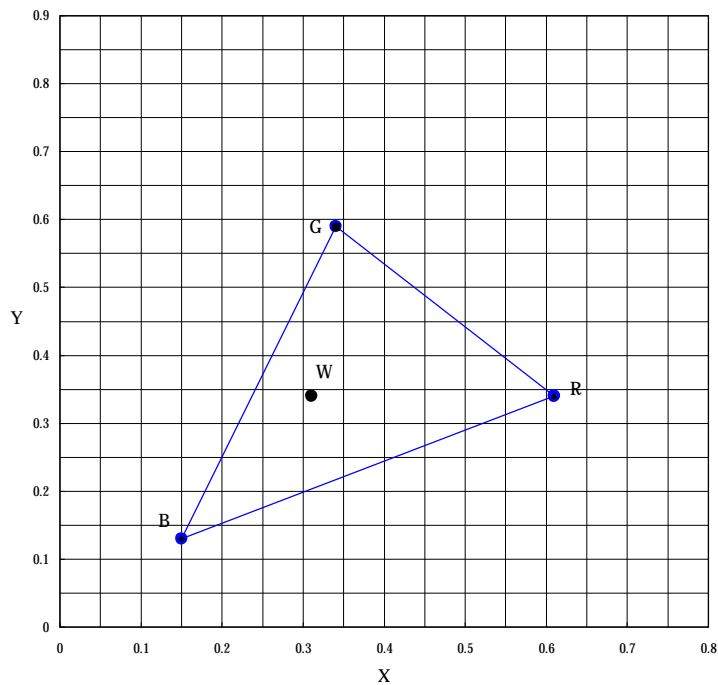
4-2. Color of CIE Coordinate

Ta=25°C

ITEM	SYMBOL	CONDITION	VALUE			NOTE	
			MIN.	TYP.	MAX.		
Color of CIE Coordinate	Red	x	$\varphi = 0^\circ, \theta = 0^\circ$	0.56	0.61	0.66	Note※
		y		0.29	0.34	0.39	
	Green	x	$\varphi = 0^\circ, \theta = 0^\circ$	0.29	0.34	0.39	
		y		0.54	0.59	0.64	
	Blue	x	$\varphi = 0^\circ, \theta = 0^\circ$	0.1	0.15	0.2	
		y		0.08	0.13	0.18	
	White	x	$\varphi = 0^\circ, \theta = 0^\circ$	0.26	0.31	0.36	
		y		0.29	0.34	0.39	

Note※ Measuring at position 3 on Fig.1 CIE chromaticity diagram.

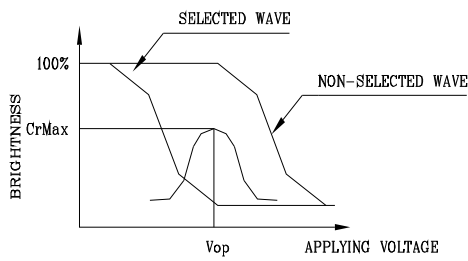
**Fig.1**



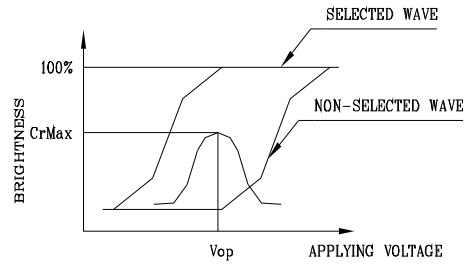
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(NOTE 1)

Definition of Operation Voltage(Vop)



(positive type)



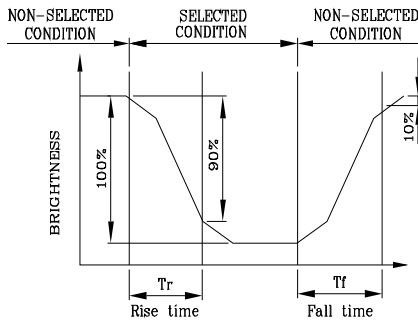
(negative type)

\*Conditions

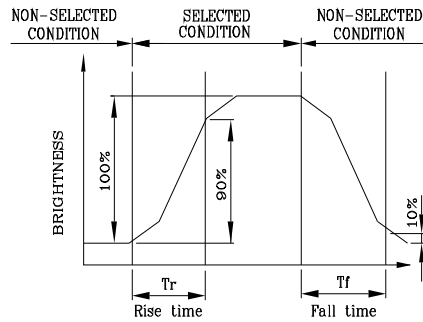
Viewing Angle : 0  
 Frame Frequency : 70Hz  
 Applying Waveform : 1/N duty 1/a bias

(NOTE 2)

Definition of Response Time(Tr,Tf)



(positive type)



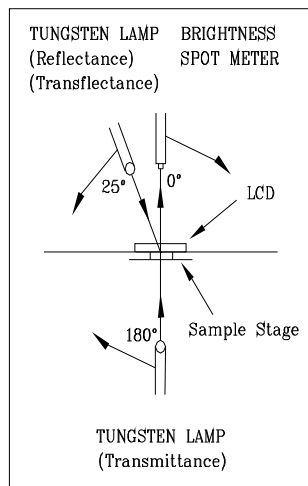
(negative type)

\*Conditions

Operating Voltage : Vop  
 Viewing Angle (θ,θ) : (0,0)  
 Frame Frequency : 70Hz  
 Applying Waveform : 1/N duty 1/a bias

(NOTE 3)

Description of Measuring Equipment and Driving Waveforms

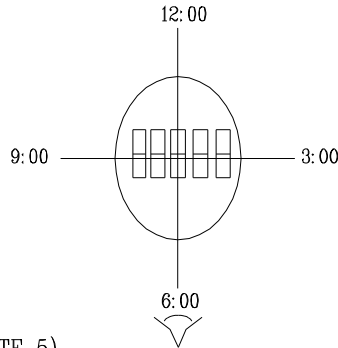


CONST.  
 TEMP.  
 CHAMBER

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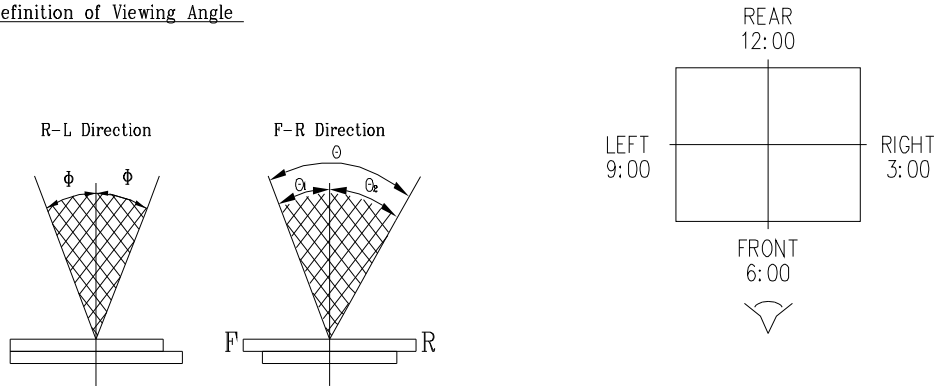
(NOTE 4)

Definition of Viewing Direction



(NOTE 5)

Definition of Viewing Angle



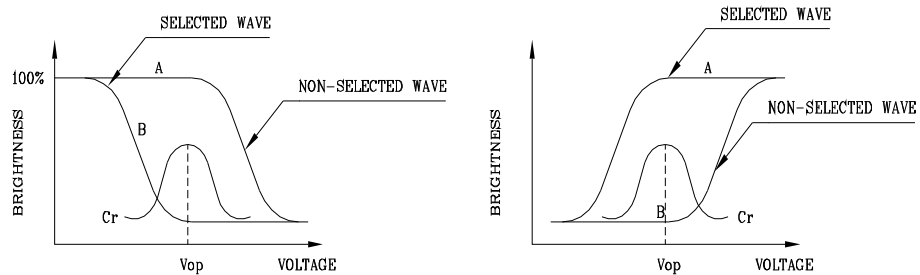
$$\Theta = \Theta_1 + \Theta_2$$

\*Conditions

Operating Voltage :  $V_{op}$   
 Frame Frequency : 70Hz  
 Applying Waveform : 1/N duty 1/a bias  
 Contrast Ratio : larger than 2

(NOTE 6)

Definition of Contrast Ratio (Cr)



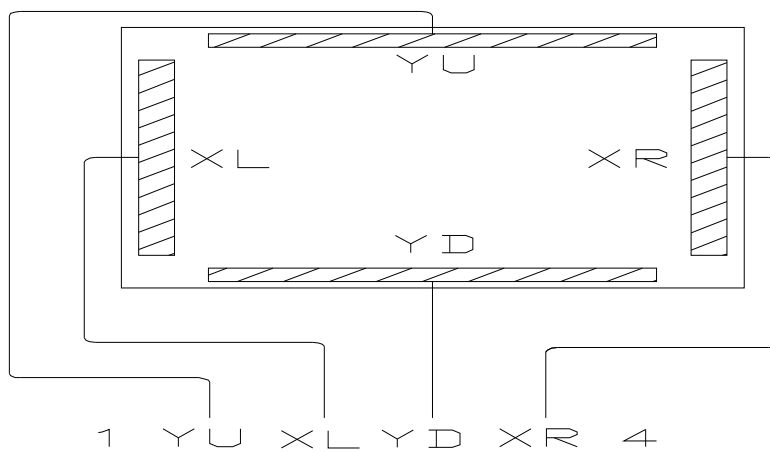
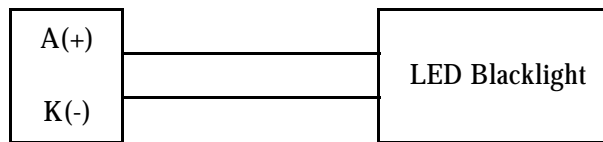
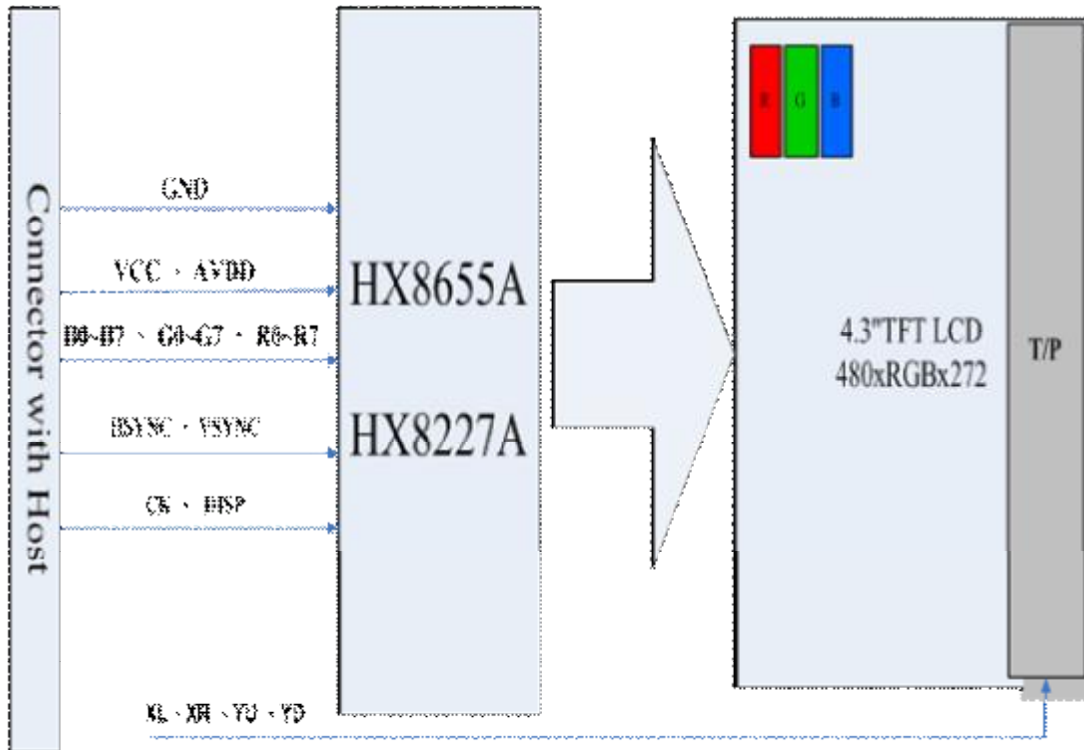
$$\text{Contrast Ratio : } Cr = A/B$$

\*Conditions

Viewing Angle : 0  
 Frame Frequency : 70Hz  
 Applying Waveform : 1/N duty 1/a bias

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5. BLOCK DIAGRAM



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**6.INTERNAL PIN CONNECTION**

LCD

Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol	Pin No.	Symbol
1	GND	11	R6	21	B0	31	DISP
2	GND	12	R7	22	B1	32	Hsync
3	VCC	13	G0	23	B2	33	Vsync
4	VCC	14	G1	24	B3	34	Reset
5	R0	15	G2	25	B4	35	AVDD
6	R1	16	G3	26	B5	36	AVDD
7	R2	17	G4	27	B6	37	PS
8	R3	18	G5	28	B7	38	DE
9	R4	19	G6	29	GND	39	GND
10	R5	20	G7	30	CK	40	GND

LCD FPC : Pitch 0.5mm / 40 pin,T=0.3mm

Mating Connector : (IRISO)IMSA 9637S-040A-\*\*\* or Compatible.

LED

Pin No.	Symbol
1	K(-)
2	NC
3	NC
4	A (+)

LED FPC : Pitch 0.5mm / 4 pin,T=0.3mm

Mating Connector : (IRISO)IMSA 9617S-04A-\*\*\* or Compatible

Touch Panel

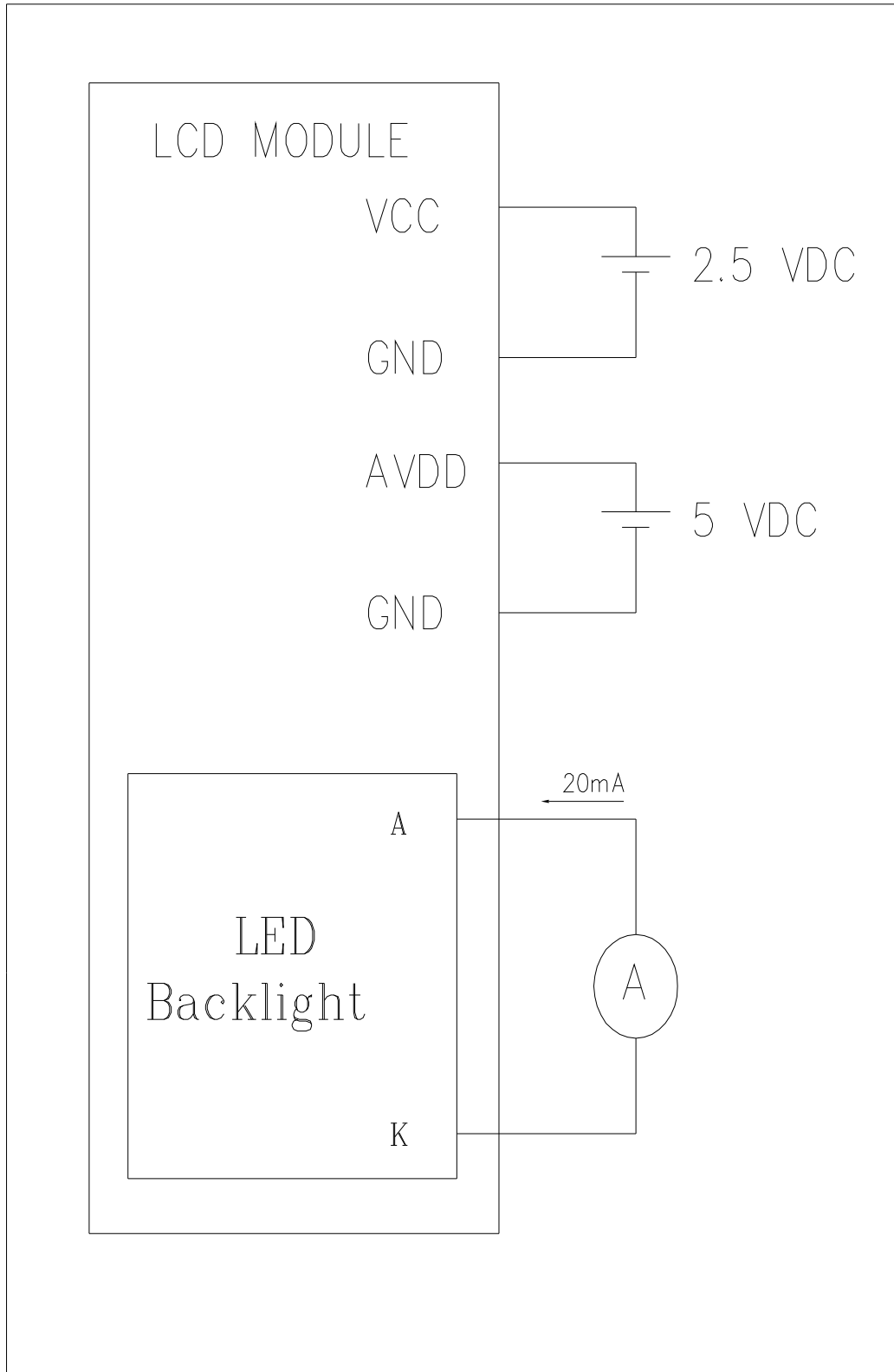
Pin No.	Symbol
1	YU
2	XL
3	YD
4	XR

Touch Panel FPC : Pitch 1mm / 4 pin,T=0.3mm

Mating Connector : (IRISO)IMSA 9617S-004A-\*\*\* or Compatible

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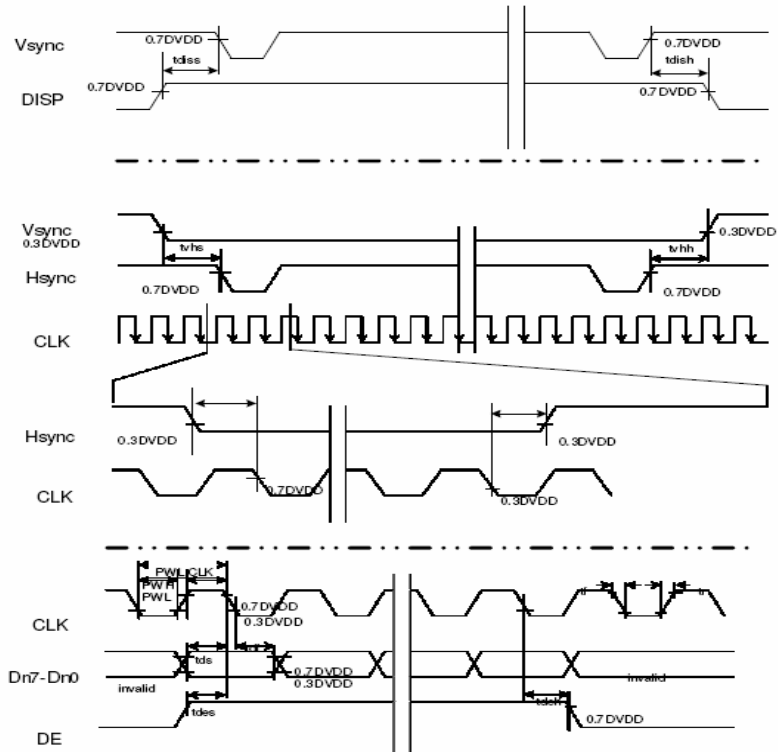
**7.POWER SUPPLY**



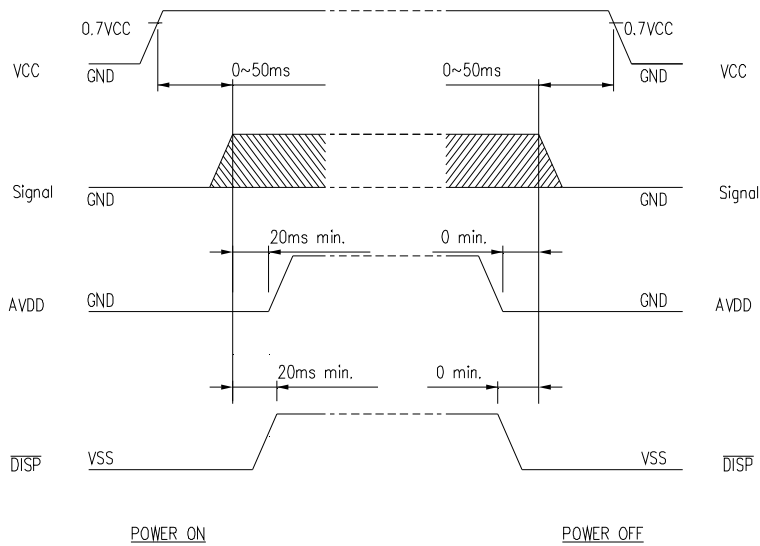
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8.3 Input Setup Timing



8.4 Power On/Off Timing



The missing pixels may occur when the LCM is driven beyond above power timing sequence.

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**9.RELIABILITY TEST**

**WIDE TEMPERATURE RELIABILITY TEST**

NO.	ITEM	CONDITION			STANDARD	NOTE
1	High Temp. Storage	80 °C	120 Hrs		Appearance without defect	
2	Low Temp. Storage	-30 °C	120 Hrs		Appearance without defect	
3	High Temp. & High Humi. Storage	60 °C 90%RH	120 Hrs		Appearance without defect	
4	High Temp. Operating Display	70 °C	120 Hrs		Appearance without defect	
5	Low Temp. Operating Display	-20 °C	120 Hrs		Appearance without defect	
6	Thermal Shock	-20 °C, 30min. → 70 °C, 30min. ↑ (1cycle)			Appearance without defect	10 cycles

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**Inspection Provision**

**1.Purpose**

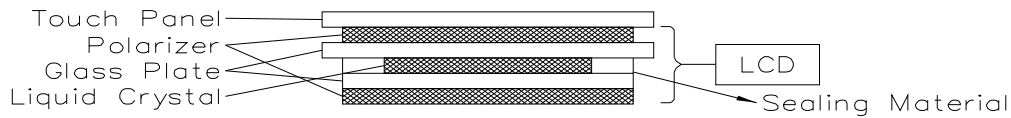
The NAN YA inspection provision provides outgoing inspection provision and its expected quality level based on our outgoing inspection of NAN YA LCD produces.

**2.Applicable Scope**

The NAN YA inspection provision is applicable to the arrangement in regard to outgoing inspection and quality assurance after outgoing.

**3.Technical Terms**

**3-1 NAN YA Technical Terms**



**4.Outgoing Inspection**

**4-1 Inspection Method**

MIL-STD-105E Level II Regular inspection

**4-2 Inspection Standard**

	Item	AQL(%)	Remarks
Major Defect	Dots	0.4	faults which substantially lower the practicality and the initial purpose difficult to achieve
	Solder appearance		
	Cracks		
	Touch Panel contact resistance		
	Touch Panel input load		

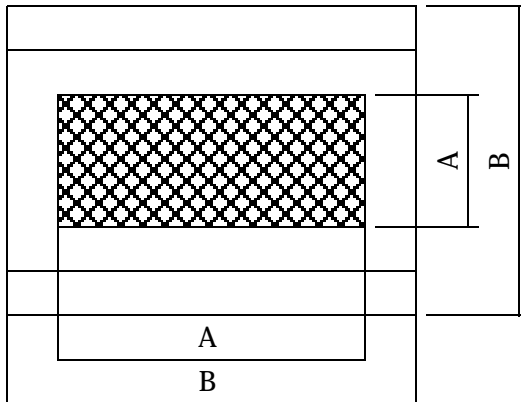
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	Dimensions	External from Dimensions	0.4	
Minor Defect	Inside the glass	Black spots	0.65	faults which appear to pose almost no obstacle to the practicality, effective use, and operation.
	Polarizing plate	Scratches, foreign Matter, air bubbles, and peeling		
	Dots	Pinhole, deformation		
	Color tone	Color unevenness		
	Solder appearance	Cold solder Solder projections		

4-3 Inspection Provisions

\*Viewing Area Definition

Fig. 1



A : Zone Viewing Area  
 B : Zone Glass Plate Outline

\*Inspection place to be 500 to 1000 lux illuminance uniformly without glaring.  
 The distance between luminous source(daylight fluorescent lamp and cool white fluorescent lamp) and sample to be 30 cm to 50 cm.

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\*Test and measurement are performed under the following conditions, unless otherwise specified.

Temperature  $20 \pm 15^{\circ}\text{C}$   
Humidity  $65 \pm 20\%\text{R.H.}$   
Pressure 860~1060hPa(mmbar)

In case of doubtful judgment, it is performed under the following conditions.

Temperature  $20 \pm 2^{\circ}\text{C}$   
Humidity  $65 \pm 5\%\text{R.H.}$   
Pressure 860~1060hPa(mmbar)

5.Specification for quality check  
5-1 Electrical characteristics

NO.	Item	Criterion
1	Non operational	Fail
2	Miss operating	Fail
3	Missing dot	Fail
4	Contrast irregular	Fail
5	Response time	Within Specified value
6	Backlight turn on/off	Within Specified value
7	Touch panel turn on/off	Within Specified value

5-2-1 The environmental condition of inspection :

The environmental condition and visual inspection shall be conducted as below.

- (1) Ambient temperature :  $25 \pm 5^{\circ}\text{C}$
- (2) Humidity : 25~75% RH
- (3) External appearance inspection shall be conducted by using a single 20W fluorescent lamp or equivalent illumination.
- (4) Visual inspection on the operation condition for cosmetic shall be conducted at the distance 30cm or more between the LCD panels and eyes of inspector. The viewing angle shall be 90 degree to the front surface of display panel.
- (5) Ambient Illumination : 300~500 Lux for external appearance inspection.
- (6) Ambient Illumination : 100~200 Lux for light on inspection.

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5-2-2 Inspection Criteria

(1) Definition of dot defect induced from the panel inside

- a) The definition of dot : The size of a defective dot over 1/2 of whole dot is regarded as or defective dot.
- b) Bright dot : Dots appear bright and unchanged in size in which LCD panel is displaying under black pattern.
- c) Dark dot : Dots appear dark and unchanged in size in which LCD panel is displaying un pure red, green, blue pattern.
- d) 2 dot adjacent = 1 pair = 2 dots

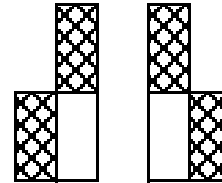
Picture :



2 dot adjacent



2 dot adjacent (vertical)



2 dot adjacent (slant)

(2) Display Inspection

NO.	Item		Acceptable Count	
1	Dot defect	Bright Dot	Random	$N \leq 2$
			2 dots adjacent	$N \leq 0$
	Dark Dot	Random	$N \leq 3$	
		2 dots adjacent	$N \leq 1$	
	Total bright and dark dot			$N \leq 4$
Functional failure (V-line/ H-line/Cross line etc.)			Not allowable	
	Mura	It's OK if mura is slight visible through 6% ND filter. (Judged by limit sample if it is necessary)		
2	Newton ring (touch panel)	Orbicular of interference fringes is not allowed in the optimum contrast within the active area under viewing angle.		

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(3) Appearance inspection

NO.	Item	Standards
1	Panel Crack	Not allow. It is shown in Fig.1.
2	Broken CF Non-lead Side of TFT	The broken in the area of $W > 2\text{mm}$ is ignored, L is ignored. It is shown in Fig.2.
3	Broken Lead Side of TFT	FPC lead, electrical line or alignment mark can't be damaged. It is shown in Fig.3.
4	Broken Corner of TFT at Lead Side	FPC lead. electrical line or alignment mark can't be damaged. It is shown in Fig.4.
5	Burr of TFT / CF Edge	The distance of burr from the edge of TFT / CF, $W \leq 0.3\text{mm}$ . It is shown in Fig.5.
6	Foreign Black / White/Bright Spot	(1) $0.15 < D \leq 0.5 \text{ mm}$ , $N \leq 4$ ; (2) $D \leq 0.15\text{mm}$ , Ignore. It is shown in Fig.6.
7	Foreign Black / White/Bright Line	(1) $0.05 < W \leq 0.1 \text{ mm}$ , $0.3 < L \leq 2 \text{ mm}$ , $N \leq 4$ .
		(2) $W \leq 0.05\text{mm}$ and $L \leq 0.3\text{mm}$ Ignore. It is shown in Fig.7.
8	Color irregular	Not remarkable color irregular.

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Fig.1.

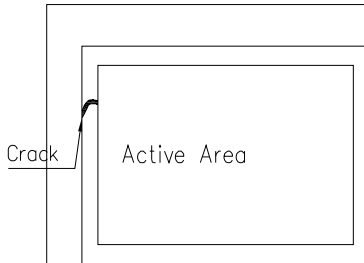


Fig.2.

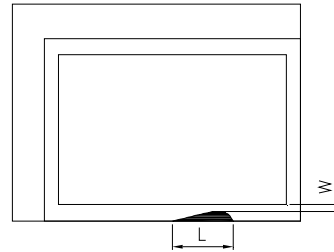


Fig.3.

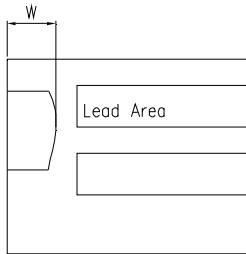


Fig.4.

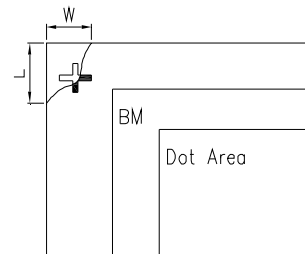


Fig.5.

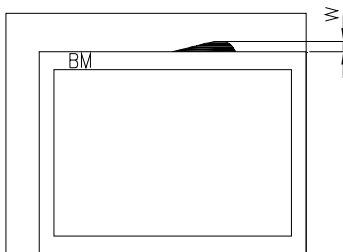
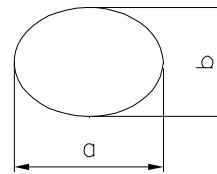
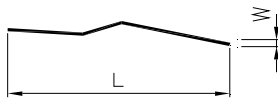


Fig.6.



$$D=(a+b)/2$$

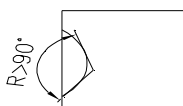
Fig.7.



Notes

1. W : Width
2. L : Length
3. D : Average Diameter
4. N : Count
5. All the angle of the broken must be larger than 90°. It is shown in Fig.8. (R>90° )

Fig.8.



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NAN YA PLASTICS CORP. ELEC. MATERIALS DIV. LCD DEPARTMENT	<b>SPECIFICATION</b>	SPEC. NO. : LM780-1 DATE : June. 19, 2008 SHEET NO. 9-8
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**NOTICE:**

- SAFETY

1. If the LCD panel breaks, be careful not to get the liquid crystal to touch your skin.
2. If the liquid crystal touches your skin or clothes, please wash it off immediately by using soap and water.

- HANDLING

1. Avoid static electricity which can damage the CMOS LSI.
2. Do not remove the panel or frame from the module.
3. The polarizing plate of the display is very fragile. So, please handle it very carefully.
4. Do not wipe the polarizing plate with a dry cloth, as it may easily scratch the surface of plate.
5. Do not use ketonics solvent & Aromatic solvent. Use a soft cloth soaked with a cleaning naphtha solvent.

- STORAGE

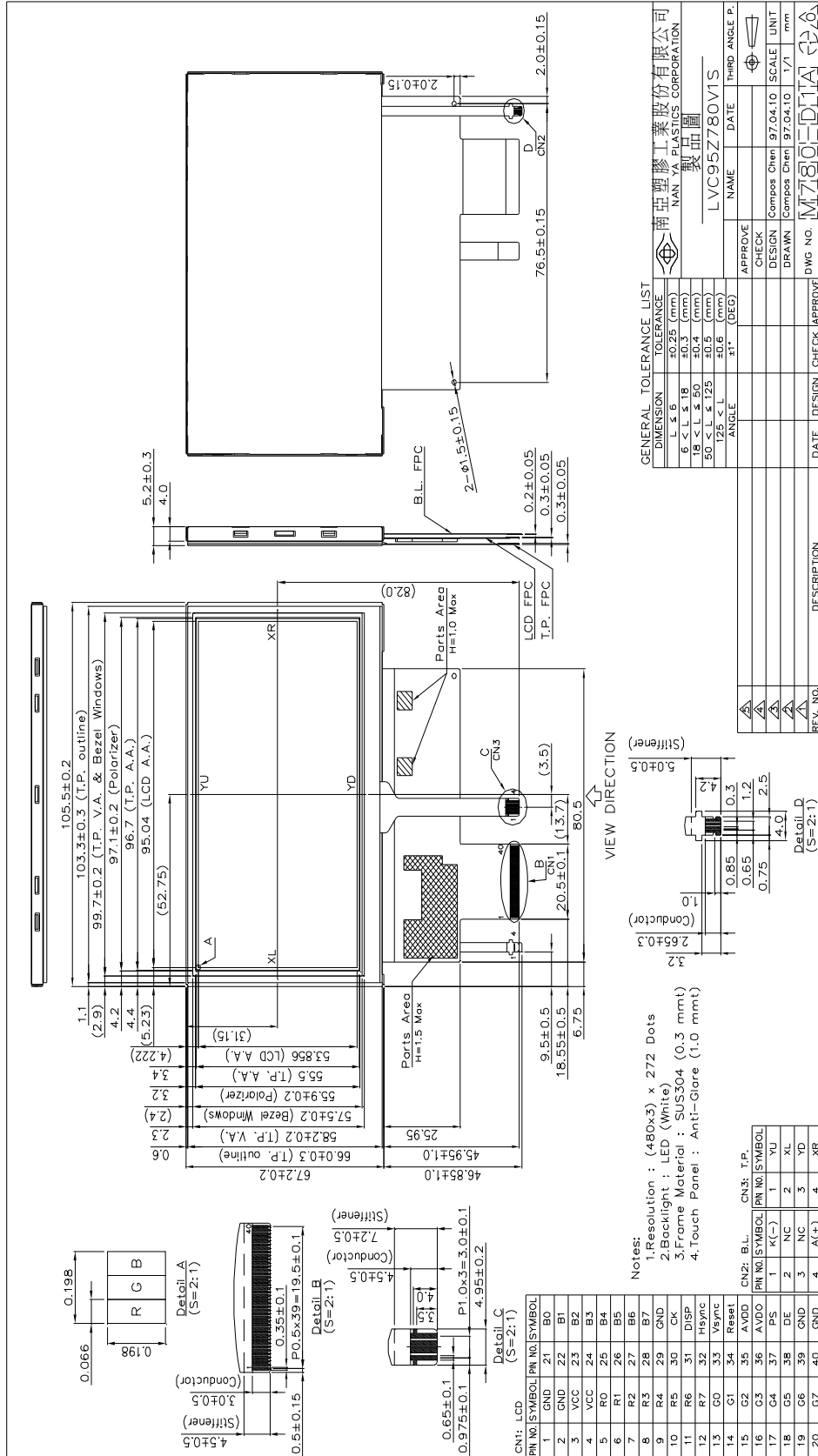
1. Store the panel or module in a dark place where the temperature is  $25\pm 5^{\circ}\text{C}$  and the humidity is below 65% RH.
2. Do not place the module near organics solvents or corrosive gases.
3. Do not crush, shake, or jolt the module.

- TERMS OF WARRANT

1. Acceptance inspection period  
The period is within one month after the arrival of contracted commodity at the buyer's factory site.
2. Applicable warrant period  
The period is within twelve months since the date of shipping out under normal using and storage conditions.

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10.OUTLINE DRAWING



GENERAL TOLERANCE LIST

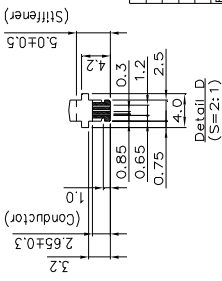
DIMENSION	TOLERANCE
L ≤ 6	±0.25 (mm)
6 < L ≤ 18	±0.3 (mm)
18 < L ≤ 50	±0.4 (mm)
50 < L ≤ 125	±0.6 (mm)
125 < L	±0.8 (mm)
ANGLE	±1°
THIRD ANGLE P.	☺

APPROVE: \_\_\_\_\_  
CHECK: \_\_\_\_\_  
DESIGN: Compos Chen 97.04.10  
DRAWN: Compos Chen 97.04.10  
SCALE: 1/1  
UNIT: mm

DATE: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
SCALE: \_\_\_\_\_  
UNIT: \_\_\_\_\_

NAME: LVC95Z780V1S  
DATE: \_\_\_\_\_  
THIRD ANGLE P.:

REV. NO.	DESCRIPTION	DATE	DESIGN	CHECK	APPROVE
1					



Notes:

- Resolution : (480x3) x 272 Dots
- Backlight : LED (White)
- Frame Material : SUS304 (0.3 mm)
- Touch Panel : Anti-Glare (1.0 mm)

PN NO.	SYMBOL	PN NO.	SYMBOL	PN NO.	SYMBOL
1	GND	21	BO	15	G2
2	GND	22	B1	16	G3
3	VCC	23	B2	17	G4
4	VCC	24	B3	18	G5
5	R0	25	B4	19	G6
6	R1	26	B5	20	G7
7	R2	27	B6		
8	R3	28	B7		
9	R4	29	GND		
10	R5	30	CK		
11	R6	31	DISP		
12	R7	32	Hsync		
13	G0	33	Vsync		
14	G1	34	Reset		
15	G2	35	AVDD		
16	G3	36	AVDO		
17	G4	37	PS		
18	G5	38	DE		
19	G6	39	GND		
20	G7	40	GND		

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06.19.08'

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