

DATA IMAGE CORPORATION

TFT Module Specification

ITEM NO.: FG040370DSSWMG01

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Customer Companies	R&D Dept.	Q.C. Dept.	Eng. Dept.	Prod. Dept.
	Jack	Joe	Ging.	Sen
Approved by	Version:	Issued Date:	Sheet Code:	Total Pages:
	D	25/FEB/14'		19





2. RECORD OF REVISION

Rev	Date	Item	Page	Comment
1	14/MAY/09'			Initial preliminary
2	12/AUG/09'	14	15	Change OUTLINE DRAWING from Rev: 1 to Rev: 2
3	10/SEP/09'	7 14 15	5 14 15	Modify: PIN CONNECTIONS Change OUTLINE DRAWING from Rev: 2 to Rev: 3 Modify: PACKAGE INFORMATION
4	4/AUG/10'	5.1 6 8.4 9 11	3 4 8 9 12	1.Add VLED range 2.Modify: Block Diagram 3.Revise Sequences of supply voltage and signals 4.Revise Optical Characteristics 5.Revise LCM PRODUCT LABEL DEFINE
5	10/NOV/10'	8 9	6 9	Modify: Vsync cycle Add: Brightness uniformity of the arithmetic formula. Modify: Note7: Measured at the center area of the panel with all pixels are white.
6	18/MAY/11'	4 11	3 13	1.Modify the View Angle direction 2.Modify Product Name Define :M-All View Angle& Wide temp
Α	05/AUG/11'	13	15	1. Modify OUTLINE DRAWING from Rev: 3 to A 2. Release Rev. A for production
В	29/NOV/11'	4 8.1	3 6	1.Modify Surface treatment from Antiglare to Glare 2. Modify timing diagram.
С	29/AUG/13'	5.1 10.1.5 10.2	3 11 12	Add LED life time Add remark Add Inspection condition
D	25/FEB/14'	9	9	Modify Contrast ratio.



3. Application

Digital equipments which need color display, such as P.O.S, medical equipments and industrial equipments.

4. GENERAL Specifications

Specifications	Unit						
480X R.G.B x 272	dot						
95.04(W) x 53.856(H)	mm						
4.3(Diagonal)	inch						
0.066 (W) x 0.198(H)	mm						
R.G.B. Stripe							
105.5 (W) x 67.2(H) x 3.1(D)	mm						
54	g						
Glare							
View Angle direction(Gray inversion) All							
	480X R.G.B x 272 95.04(W) x 53.856(H) 4.3(Diagonal) 0.066 (W) x 0.198(H) R.G.B. Stripe 105.5 (W) x 67.2(H) x 3.1(D) 54 Glare						

Our components and processes are compliant to RoHS standard.

5. Electrical Characteristics

Ta=25°C

Parameter	Symbol	MIN.	Тур.	MAX.	Unit	Remark
Power Supply voltage	V_{DD}	3.0	3.3	3.6	V	Note1
Power Supply Current	I _{DD}		12		mA	V _{DD} =3.3V
Dinale Veltere	V_{RFVDD}			100	mVp-p	
Ripple Voltage	V _{RFVDD}			100	mVp-p	
"H" level logical input voltage	V _{IH}	0.7VDD		VDD	V	
"L" level logical input voltage	V _{IL}	0		0.3VDD	V	
Operating temperature	Topa	-20		70	°C	Ambient temperature
Storage temperature	Tstg	-30	1	80	°C	Ambient temperature

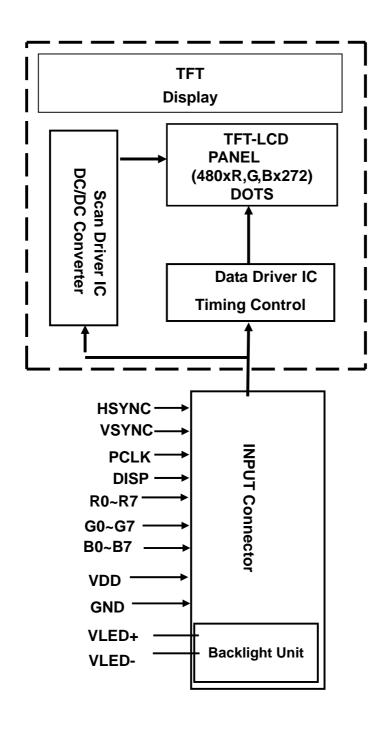
Note1:VDDAbsolute Maximum Ratings -0.3V~+4.5V

5.1 Backlight driving for power conditions

Ta= 25 °C

Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
LED current	Ι _L		20		mΑ	
VLED voltage	V_L	21.0	23.1	26.6	V	I _{L=20 mA}
LED life time			20,000		hr	







7. PIN CONNECTIONS

7.1 Input Pins Connection

Pin No	Symbol	Function	Remark
1	VLED-	LED Power Source input terminal (Cathode side)	
2	VLED+	LED Power Source input terminal (Anode side)	
3	GND	Ground	
4	VDD	Power Supply: +3.3V	
5	R0	Red pixel data(LSB)	
6	R1	Red pixel data	
7	R2	Red pixel data	
8	R3	Red pixel data	
9	R4	Red pixel data	
10	R5	Red pixel data	
11	R6	Red pixel data	
12	R7	Red pixel data(MSB)	
13	G0	Green pixel data(LSB)	
14	G1	Green pixel data	
15	G2	Green pixel data	
16	G3	Green pixel data	
17	G4	Green pixel data	
18	G5	Green pixel data	
19	G6	Green pixel data	
20	G7	Green pixel data(MSB)	
21	В0	Blue pixel data(LSB)	
22	B1	Blue pixel data	
23	B2	Blue pixel data	
24	В3	Blue pixel data	
25	B4	Blue pixel data	
26	B5	Blue pixel data	
27	В6	Blue pixel data	
28	B7	Blue pixel data(MSB)	
29	GND	Ground	
30	PCLK	clock signal ;latching data at the falling edge	
31	DISP	Display ON/OFF Signal ON=H, OFF=L	
32	HSYNC (HS)	Horizontal synchronous signal	
33	VSYNC (VS)	Vertical synchronous signal	
34	NC	No Connection	
35	NC	No Connection	
36	GND	Ground	
37	NC	No Connection	
38	NC	No Connection	
39	NC	No Connection	
40	NC	No Connection	



8. INTERFACE SPECIFICATIONS

8.1 INPUT SIGNAL TIMING SPECIFICATIONS

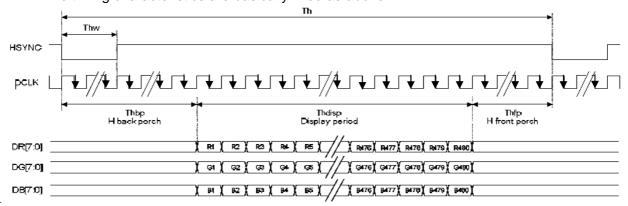
The specification of input signals timing is as the following table and timing diagram.

 $(T_A=25^{\circ}C, VDD=2.25V\sim3.6V, GND=0V)$

	(' /	, ,			, ,
Symbol	MIN.	TYP.	MAX.	Unit	Remarks
fCLK	5	9	12	MHz	
1/th	-	16.95	-	KHZ	
1/tv	-	58.85	-	HZ	
Th	490	531	605	CLK	
Thdisp	-	480	-	CLK	
Thfp	2	8	-	CLK	
Thw	1	-	-	CLK	
Thbp	8	43	-	CLK	
Tv	275	288	335		
Tvdisp	-	272	-	H ⁽¹⁾	
Tvfp	1	4	-	H ⁽¹⁾	
Tvw	1	10	-	H ⁽¹⁾	
Tvbp	2	12	-	H ⁽¹⁾	
	Thus The Thorner The Thorner The Thorner The Thorner The Trust Tru	Symbol MIN. fCLK 5 1/th - 1/tv - Th 490 Thdisp - Thfp 2 Thw 1 Thbp 8 Tv 275 Tvdisp - Tvdisp - Tvfp 1 Tvw 1	Symbol MIN. TYP. fCLK 5 9 1/th - 16.95 1/tv - 58.85 Th 490 531 Thdisp - 480 Thfp 2 8 Thw 1 - Thbp 8 43 Tv 275 288 Tvdisp - 272 Tvfp 1 4 Tvw 1 10	Symbol MIN. TYP. MAX. fCLK 5 9 12 1/th - 16.95 - 1/tv - 58.85 - Th 490 531 605 Thdisp - 480 - Thw 1 - - Thw 1 - - Thbp 8 43 - Tvdisp - 272 - Tvfp 1 4 - Tvw 1 10 -	Symbol MIN. TYP. MAX. Unit fCLK 5 9 12 MHz 1/th - 16.95 - KHZ 1/tv - 58.85 - HZ Th 490 531 605 CLK Thdisp - 480 - CLK Thw 1 - - CLK Thw 1 - - CLK Thbp 8 43 - CLK Tvdisp - 272 - H(1) Tvfp 1 4 - H(1) Tvw 1 10 - H(1)

Note:

- ♦ In case of using the slow frequency, the deterioration of display flicker etc may occur.
- ♦ The timing characteristics are basically fixed as above.



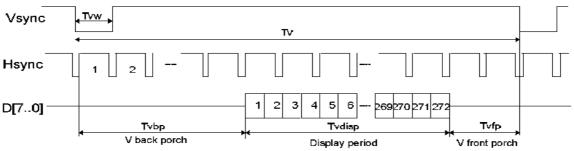


Figure 8-1 Sync mode Input timing



8.2 Color DATA INPUT ASSIGNMENT

	INPUT	R DATA				G DATA					B DATA														
COLOR	DATA	R7	R6	R5	R4	R3	R2	R1	RO	R7	R6	R5	R4	R3	R2	R1	RO	R7	R6	R5	R4	R3	R2	R1	RO
	78/ANGS 1	MSB							LSB	MSB				28 3			LSB	MSB							LSI
	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
BASIC	BLUE(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
COLOR	CYAN	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	MAGENTA	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	YELLOW	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	.0
	WHITE	(f.)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	া	1	1	1	1	1
	RED(0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(1)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(2)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RED			-5			-	<u>, _</u> ,		, I					a)—3							-		,-		
	RED(254)	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	GREEN(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	া	0	0	0	0	0	0	0	0	0
GREEN																									
				1																	J.				
	GREEN(254)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	GREEN(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	BLUE (0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BLUE (1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 1
	BLUE (2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
BLUE																									
	BLUE (254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1:	10	1	1	1	া	1	0
	BLUE (255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	1	1	1	1	1	-1

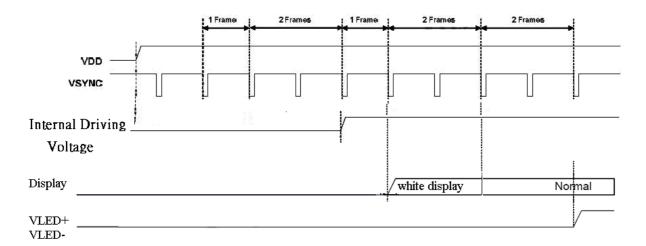
[NOTE]:

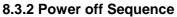
- 1) Definition of Gray level: Color(n): n to show the Gray level n is the more high and the light more bright.
- 2) Data:1-High, 0-Low.

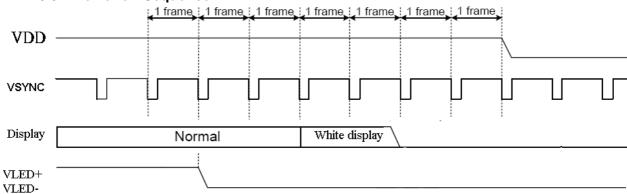


8.3 Sequences of supply voltage and signals

8.3.1 Power on Sequence









9. Optical Characteristics

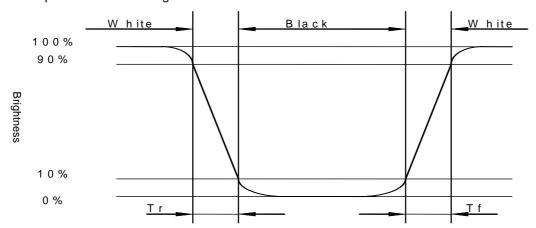
9.1 Specification:

Iter	n	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
Response time	Rise+ Fall	Tr+ Tf	<i>θ</i> =0°	-	25	-	ms	Note 4
Contras	t ratio	CR	At the center point of A.A.	300	500			Note 5
	Тор			70	80	-		
Viewing	Bottom		CR≥10	70	80	-	Deg.	Note 6
angle	Left			70	80	-	Deg.	Note o
	Right			70	80	-		
Luminance	of white		0.00	320	400		cd/m ²	Note 7,8
Uniformity			<i>θ</i> =0°	70			%	Note 8,9
Whi	te	Х	<i>θ</i> =0°	0.27	0.32	0.37		Note 7
chroma	aticity	у	<i>0=</i> 0	0.28	0.33	0.38		NOIE /

- Note 1: Ambient temperature =25°C. LED current = 20 mA.
- Note 2: To be measured in the dark room.
- Note 3: To be measured on the center area of panel with a viewing cone of 1° by Topcon luminance meter BM-7A, after 2 minutes operation.
- Note 4: Definition of response time:

The output signals of photo-detector are measured when the input signals are changed

from "white" to "black" (rising time) and from "black" to "white" (falling time), respectively. The response time is defined as the time interval between the 10% and 90% of amplitudes. Refer to figure as shown below.

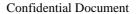


Note5: Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

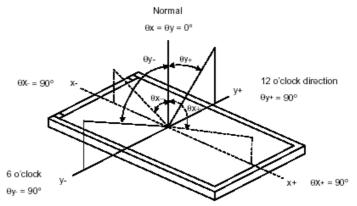
Contrast ratio (CR)= Photo-detector output when LCD is at "White" state

Photo-detector output when LCD is at "Black" state



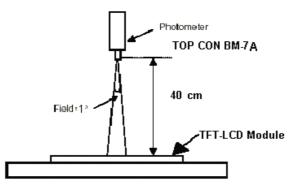


Refer to figure as below.

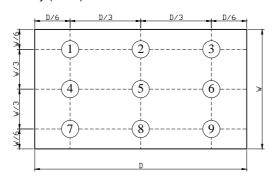


Note7: Measured at the center area of the panel with all pixels are white.

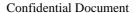
Note8: The method of optical measurement



Note 9: Definition of Brightness Uniformity (B-uni):



B-uni =
$$\frac{\text{Minimum luminance of 9 points}}{\text{Maximum luminance of 9 points}}$$
 (Note 9).





10.1.1 Temperature and Humidity(Ambient Temperature)

 $\begin{array}{lll} \mbox{Temperature} & : & 25 \pm 5^{\circ}\mbox{C} \\ \mbox{Humidity} & : & 65 \pm 5\% \\ \end{array}$

10.1.2 Operation

Unless specified otherwise, test will be conducted under function state.

10.1.3 Container

Unless specified otherwise, vibration test will be conducted to the product itself without putting it in a container.

10.1.4 Test Frequency

In case of related to deterioration such as shock test. It will be conducted only once.

10.1.5 Test Method

No.	Reliability Test Item & Level	Test Level	Remark
1	High Temperature Storage Test	T=80°C,240hrs	IEC68-2-2
2	Low Temperature Storage Test	T=-30°C,240hrs	IEC68-2-1
3	High Temperature Operation Test	T=70°C,240hrs	IEC68-2-2
4	Low Temperature Operation Test	T=-20°C,240hrs	IEC68-2-1
5	High Temperature and High Humidity Operation Test	T=60°C,90% RH,240hrs	IEC68-2-3
6	Temperature Cycle Test (No operation)	$-30^{\circ}\text{C} \rightarrow +25^{\circ}\text{C} \rightarrow +80^{\circ}\text{C},200 \text{ Cycles}$ 30 min 5min 30 min	IEC68-2-14
7	Vibration Test (No operation)	Frequency:0 ~ 55 Hz Amplitude:1.5 mm Sweep Time:11min Test Period:6 Cycles for each Direction of X,Y,Z	IEC68-2-6
8	Electrostatic Discharge Test (No operation)	± 2KV	IEC61000-4-2



10.2 Inspection condition

10.2.1 Inspection condition

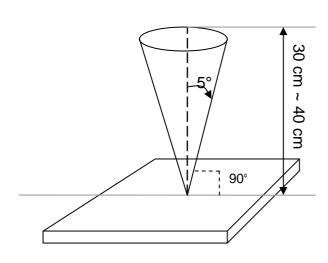
10.2.1.1 Inspection conditions

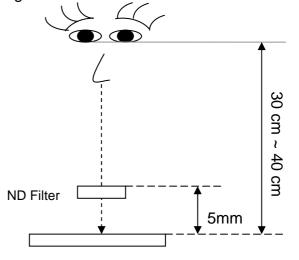
10.2.1.1.1 Inspection Distance : 35 ± 5 cm

10.2.1.1.2 View Angle :

(1) Inspection under operating condition: $\pm 5^{\circ}$

(2) Inspection under non-operating condition: ± 45°

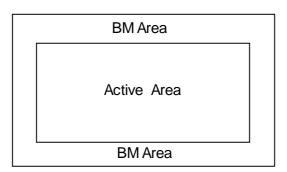




10.2.1.1.3Environment conditions:

Ambien	t Temperature :	25±5			
Ambie	ent Humidity :	65±5%			
Ambient	Cosmetic Inspection	More than 600lux			
Illumination	Functional Inspection	300 ~ 800lux			

10.2.1.2 Definition of applicable Zones



Page:



10.2.2 Inspection Parameters

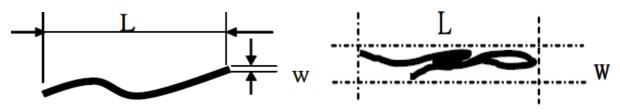
No.	2.2 Inspection Para Parameter	Criteria						
	- arameter	Display function: No Display malfunction (Major)						
		Contrast ratio (Black, White): Does not meet specified range in the spec. (Major) (Note:3)						
	Operating	Line Defect: No obvious Vertical and Horizontal line defect in bright, dark						
		and colored. (Major) (Note:1)						
		Point Defect (Red, green, blue, dark): Active area ≤4dots (Minor)(Note:1)						
		Item Acceptabl		Total		Class Of	AQL	
			e number			Defects	Level	
		Bright	1	4				
		Dark	3		Minor		1.5	
		Adjacent Bright Adjacent Dark	<u> </u>	0				
		Aujacent Dark						
		Non-uniformity:						
		Visible through 6%ND filter white, R, G, B and gray 50%pattern. (Minor) Foreign material in Black or White spots shape (W>1/4L) (Note: 5)						
1		Foreign material in Black or W				e (VV>1/4L) (I lass Of	Note: 5) AQL	
		Dimension		Acceptab e number		efects	Level	
		D ≤ 0.3		*		Defects Level		
			3		linor	1.5		
		0.3 < D ≤0.5		0	IV	III IOI	1.5	
		D> 0.5						
		D = (Long + Short) / 2 * : Disregard						
		Foreign Material in Line or spiral shape (W≤1/4L) (Note: 4) Acceptabl Class Of AQL					AQL	
		Dimension		e nur		Defects	Level	
		W. O. Amara I., Emara		0		Minor	1.5	
		W>0.1mm,L>5mm L 5mm,0.05mm <w 0.1mm<="" td=""><td>3</td><td></td></w>		3				
		L 5mm,0.05mm	m ×					
		L 5mm,W<0.05mm						
		L: Length W: Width *: Disregard						
	External Inspection (non-operating)	Dimension: Outline (Major)						
		Bezel appearance: uneven (Minor)						
		Scratch on the polarizer: (Note:2)						
2		Dimension		Acce	otabl	Class Of	AQL	
		Dimension		e nur	nber	Defects	Level	
		W>0.1mm,L>5mm		0)			
		L 5mm,0.05mm <w 0.1m<="" td=""><td>m 3</td><td colspan="2">3</td><td>1.5</td></w>		m 3	3		1.5	
				*		Minor		
		L : Length W : Width * : Disregard						
		Dent and spots shape on the polarize (Note:2): (Note: 5)						
		Dimension			Acceptabl		AQL	
					Acceptabl Cla e number De		Level	
		D ≤ 0.3		*		Minor	1.5	
		0.3 < D ≤0.5		3				
		D> 0.5		0				
		D = (Long + Short) / 2 *: Disregard						
		D = (Long + Short)	,,	iorogaiu				



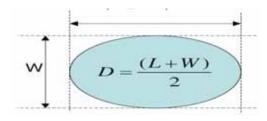
			Definition			
Class of defects	Major		It is a defect that is likely to result in failure or to reduce materially the usability of the product for the intended function.			
ueiecis	Minor	AQL 1.5%	It is a defect that will not result in functioning problem with deviation classified.			

- Note:1 (a)Bright point defect is defined as point defect of R,G,B with area >1/2 pixel respectively (b)Dark point defect is defined as visible in full white pattern.
 - (c)The point defect must under 2% ND Filter visible.
- Note:2 The external inspection should be conducted at the distance 30± 5cm between the eyes of inspector and the panel.
- Note:3 Luminance measurement for contrast ratio is at the distance 50± 5cm between the detective head and the panel with ambient illuminance less than 1 lux. Contrast ratio is obtained at optimum view angle.

Note:4 W-Width in mm , L-length of Max.(L1,L2) in mm.



Note:5 Spot Foreign Material (W L/4)



10.2.3 Sampling Condition

Unless otherwise agree in written, the sampling inspection shall be applied to the incoming inspection of customer.

Lot size: Quantity of shipment lot per model.

Sampling type: normal inspection, single sampling

Sampling table: MIL-STD-105E

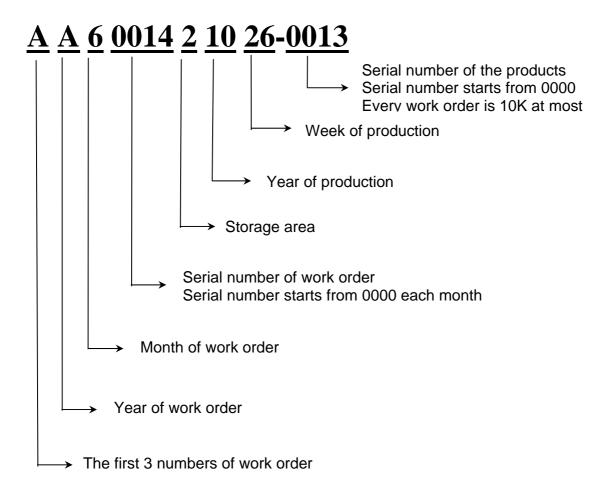
Inspection level: Level II



Product Label style:

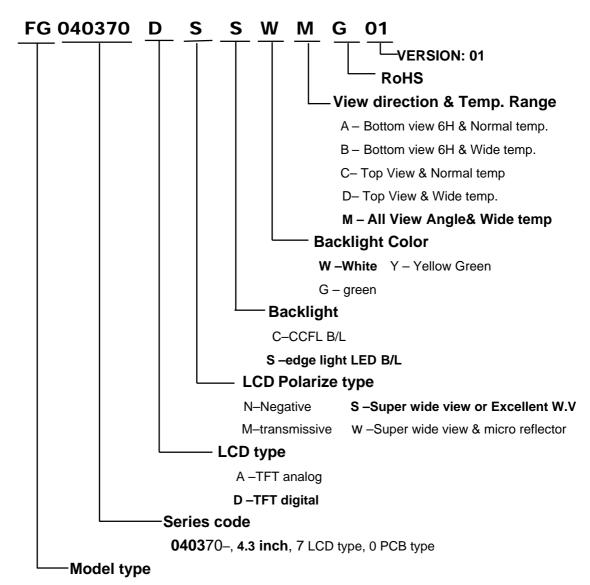


BarCode Define:





Product Name Define:



FG-Standard TFT Module

FX-Custom TFT Module



12. PRECAUTIONS IN USE LCM

1. LIQUID CRYSTAL DISPLAY (LCD)

LCD is made up of glass, organic sealant, organic fluid, and polymer based polarizers. The following precautions should be taken when handing,

- (1). Keep the temperature within range of use and storage. Excessive temperature and humidity could cause polarization degradation, polarizer peel off or bubble.
- (2). Do not contact the exposed polarizers with anything harder than an HB pencil lead. To clean dust off the display surface, wipe gently with cotton, chamois or other soft material soaked in petroleum benzin.
- (3). Wipe off saliva or water drops immediately. Contact with water over a long period of time may cause polarizer deformation or color fading, while an active LCD with water condensation on its surface will cause corrosion of ITO electrodes.
- (4). Glass can be easily chipped or cracked from rough handling, especially at corners and edges.
- (5). Do not drive LCD with DC voltage.

2. Liquid Crystal Display Modules

2.1 Mechanical Considerations

LCM are assembled and adjusted with a high degree of precision. Avoid excessive shocks and do not make any alterations or modifications. The following should be noted.

- (1). Do not tamper in any way with the tabs on the metal frame.
- (2). Do not modify the PCB by drilling extra holes, changing its outline, moving its components or modifying its pattern.
- (3). Do not touch the elastomer connector, especially insert an backlight panel (for example, EL).
- (4). When mounting a LCM make sure that the PCB is not under any stress such as bending or twisting . Elastomer contacts are very delicate and missing pixels could result from slight dislocation of any of the elements.
- (5). Avoid pressing on the metal bezel, otherwise the elastomer connector could be deformed and lose contact, resulting in missing pixels.

2.2. Static Electricity

LCM contains CMOS LSI's and the same precaution for such devices should apply, namely

- (1). The operator should be grounded whenever he/she comes into contact with the module. Never touch any of the conductive parts such as the LSI pads, the copper leads on the PCB and the interface terminals with any parts of the human body.
- (2). The modules should be kept in antistatic bags or other containers resistant to static for storage.
- (3). Only properly grounded soldering irons should be used.
- (4). If an electric screwdriver is used, it should be well grounded and shielded from commutator sparks.

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- (5) The normal static prevention measures should be observed for work clothes and working benches; for the latter conductive (rubber) mat is recommended.
- (6). Since dry air is inductive to statics, a relative humidity of 50-60% is recommended.

2.3 Soldering

- (1). Solder only to the I/O terminals.
- (2). Use only soldering irons with proper grounding and no leakage.
- (3). Soldering temperature : $280^{\circ}\text{C} \pm 10^{\circ}\text{C}$
- (4). Soldering time: 3 to 4 sec.
- (5). Use eutectic solder with resin flux fill.
- (6). If flux is used, the LCD surface should be covered to avoid flux spatters. Flux residue should be removed after wards.

2.4 Operation

- (1). The viewing angle can be adjusted by varying the LCD driving voltage V0.
- (2). Driving voltage should be kept within specified range; excess voltage shortens display life.
- (3). Response time increases with decrease in temperature.
- (4). Display may turn black or dark blue at temperatures above its operational range; this is (however not pressing on the viewing area) may cause the segments to appear "fractured".
- (5). Mechanical disturbance during operation (such as pressing on the viewing area) may cause the segments to appear "fractured".

2.5 Storage

If any fluid leaks out of a damaged glass cell, wash off any human part that comes into contact with soap and water. Never swallow the fluid. The toxicity is extremely low but caution should be exercised at all the time.

2.6 Limited Warranty

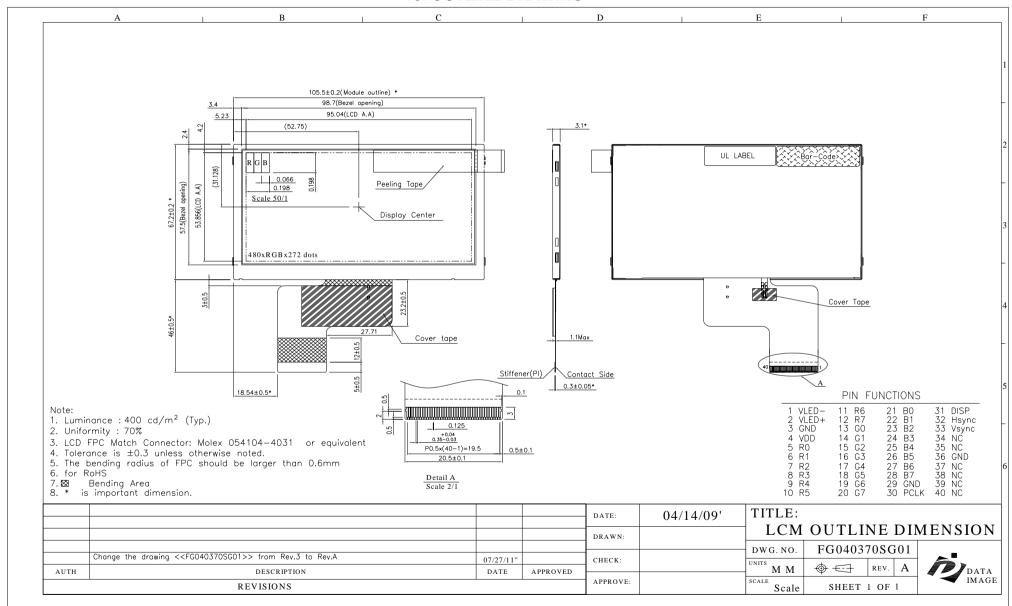
Unless otherwise agreed between DATA IMAGE and customer, DATA IMAGE will replace or repair any of its LCD and LCM which is found to be defective electrically and visually when inspected in accordance with DATA IMAGE acceptance standards, for a period on one year from date of shipment. Confirmation of such date shall be based on freight documents. The warranty liability of DATA IMAGE is limited to repair and/or replacement on the terms set forth above. DATA IMAGE will not responsible for any subsequent or consequential events.

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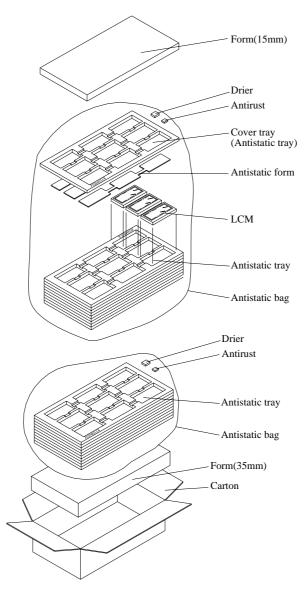


13. OUTLINE DRAWING





14. PACKAGE INFORMATION



Material

 $1 \;\; Carton + 1 \; Form \; (15mm) + 2 \; Anti-static \; bag + 20 \; Anti-static \; tray$

+ 2 Drier + 2 Antirust + 1 Form (35mm)

Total pcs

1 Antistatic tray = 9 pcs (modules)

1 Anti-static bag = 9 Anti-static tray + cover tray = 9*9 + 1*0 = 81 pcs

1 Carton = 2 Anti-static bag = 2*81 = 162 pcs

1 Carton = 162 pcs

Carton size : 465L x 380W x 395H (mm)

FG040321 TFT LCM PACKING

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