

TFT-Display Datenblatt

Modell FG050722DUSWMGL2

Kurzdaten

Hersteller Data Image

Diagonale 5,7" / 14,5 cm

Format 4:3

Auflösung 640 x 480

Backlight LED / 250 cd/m²

Interface LVDS
Touchscreen nein

Temperatur -20... +70°C (Betrieb)

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DATA IMAGE corporation

TFT Module Specification

Preliminary

ITEM NO.: FG050722DUSWMGL2

Table of Contents

1.	COVER & CONTENTS	1
2.	RECORD OF REVISION ······	2
3.	APPLICATION	3
4.	GENERAL SPECIFICATIONS	3
5.	ABSOLUTE MAXIMUM RATINGS	3
6.	ELECTRICAL CHARACTERISTICS	3
7.	BLOCK DIAGRAM ······	4
8.	PIN CONNECTIONS	5
9.	TIMING CHARACTERISTICS	7
10.	OPTICAL CHARACTERISTIC ······	12
11.	QUALITY ASSURANCE ·····	15
12.	LCM PRODUCT LABEL DEFINE	19
13.	PRECAUTIONS IN USE LCM ······	21
14.	OUTLINE DRAWING	22
15.	PACKAGE INFORMATION	23

Customer Companies	R&D Dept.	Q.C. Dept.	Eng. Dept.	Prod. Dept.
	ALEX	JOE	GARY	KEN
Approved by	Version:	Issued Date:	Sheet Code:	Total Pages:
	2	24/JUL/13'		23

FG050722DUSWMGL2 REV: 2 Page: 1 /23



2. RECORD OF REVISION

Rev	Date	Item	Page	Comment
1	15/JUL/13'	10111	ı age	Initial preliminary
2	24/JUL/13'	6	3	Modify Power Supply voltage & Current for LED. Modify LED Dice life time.



3. APPLICATION

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

4. GENERAL SPECIFICATIONS

Parameter	Specifications	Unit
Display resolution	640(W)X(R.G.B) x480(H)	dot
Active area	115.2(W) x 86.4(H)	mm
Screen size	5.7(Diagonal)	inch
Dot pitch	0.06(W) x 0.18(H)	mm
Color configuration	R.G.B. Stripe	
Overall dimension	127 (W) x 98.43(H) x 8.9Max.(T)	mm
Weight	110	g
Surface treatment	Clear	
View Angle direction	All	
Our components and processes a	re compliant to RoHS standard	

5. ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	MIN.	MAX.	Unit	Remark
Power supply voltage	Vcc	-0.3	5.0	V	
Logic input voltage	VI	-0.3	V _{CC} +0.3	V	
Operating temperature	Тор	-20	+70	°C	Ambient temperature
Storage temperature	Tst	-30	+80	°C	Ambient temperature

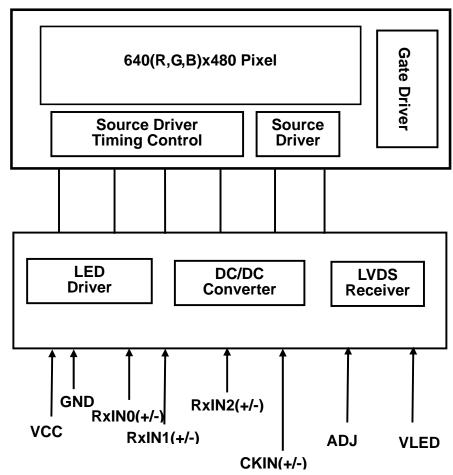
6. ELECTRICAL CHARACTERISTICS

GND=0V,DCLK=25MHz,Ta=25°C

Parameter	Symbol	MIN.	Тур.	MAX.	Unit	Remark
Power Supply voltage for LCD	V _{CC}	+3.0	+3.3	+3.6	V	
Power Supply Current for LCD	I _{CC}	-	123	150	mA	$V_{CC} = 3.3V$
Power Supply voltage for LED	VLED	4.5	5	5.5	V	
Power Supply Current for LED	ILED	-	333	400	mA	$V_{LED} = 5.0V$
Ripple voltage	V_{RF}	-	-	100	mV _{P-P}	
"H" level logical input voltage	V _{IH}	0.7Vcc	-	Vcc	V	
"L" level logical input voltage	V _{IL}	0	-	0.3Vcc	V	
ADJ frequency		19K	20K	21K	Hz	
ADJ input voltage	VIH	3.0	-	3.3	V	
7 Loo Input Voltage	VIL	0	-	0.3	V	
LED Dice life time		-	50,000	-	Hr	Note 1

Note 1: The "LED dice life time" is defined as the brightness decrease to 50% original brightness that the ambient temperature is 25°C and LED dice current=20mA.







8. PIN CONNECTIONS

Pin No	Symbol	Function	Remark
1	VCC	power supply for Digital Circuit	
2	VCC	power supply for Digital Circuit	
3	GND	Ground	
4	GND	Ground	
5	RxIN0-	Differential Data Input ,CH0(Negative)	
6	RxIN0+	Differential Data Input ,CH0(Positive)	
7	GND	Ground	
8	RxIN1-	Differential Data Input ,CH1(Negative)	
9	RxIN1+	Differential Data Input ,CH1(Positive)	
10	GND	Ground	
11	RxIN2-	Differential Data Input ,CH2(Negative)	
12	RxIN2+	Differential Data Input ,CH2(Positive)	
13	GND	Ground	
14	CKIN-	Differential Clock Input (Negative)	
15	CKIN+	Differential Clock Input (Positive)	
16	GND	Ground	
17	VLED	Power Supply for LED Driver Circuit	
18	VLED	Power Supply for LED Driver Circuit	
19	GND	Ground	
20	ADJ	Brightness control for LED B/L	

Remarks:

- 1) ADJ is brightness control Pin. The larger of the pulse duty is, the higher of the brightness. 2) ADJ signal is 0~3.3V.Operation frequency is 20KHz
- 3) GND PIN must be grounding, can not be floating.



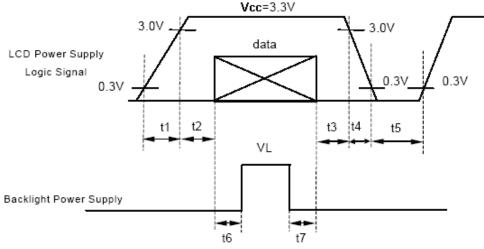
8.1 Power Signal Sequence

Remarks:

*1) Power Signal sequence:

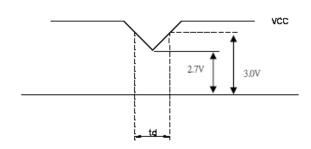
 $t1 \le 10 ms$: 1 $sec \le t5$ $50 ms \le t2$: 200 ms $\le t6$ $0 < t3 \le 50 ms$: 200 ms $\le t7$

 $0 < t4 \le 10 ms$



Data: RGB DATA, DCLK, DE

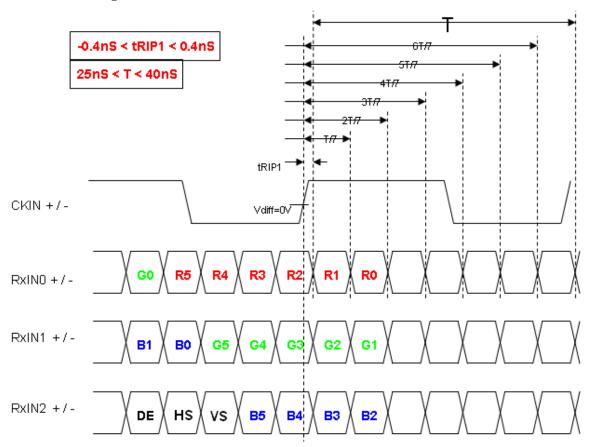
- *2) VCC-dip condition:
- (1) 2.7 V \leq VCC <3.0V,td \leq 10 ms
- (2) VCC > 3.0V, VCC-dip condition should be the same with VCC-turn-on condition \circ





9. Timing Characteristics

9.1 LVDS Timing Chart



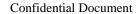




9.2 DE mode Input signal characteristics

Signal	Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Remarks
DCLK	Period	tclk	33	40	43	ns	
	Frequency	fclk	23	25	30	MHz	
	Low Level Width	t _{wcL}	6	-	-	ns	
	High Level Width	t _{wch}	6	-	-	ns	
	Rise, Fall Time	t t CLKr, CLKf	-	-	3	ns	
	Duty	-	0.45	0.50	0.55	-	
DE	Setup Time	t _{DES}	5	-	-	ns	
(Data	Hold Time	t _{DEH}	10	-	-	ns	
Enable)	Rise, Fall Time	t t DEr, DEf	-	-	16	ns	
	Horizontal Period	t _{HP}	750	800	900	t _{CLK}	
	Horizontal Valid	t _{HV}	640	640	640	t _{CLK}	
	Horizontal Blank	t _{HBK}	110	160	260	t _{CLK}	
	Vertical Period	t _{VP}	515	525	560	t _{HP}	
	Vertical Valid	t _w	480	480	480	t _{HP}	
	Vertical Blank	t _{VBK}	35	45	80	t _{HP}	
	Vertical Frequency	f _v	55	60	65	Hz	
Data	Setup Time	t _{DS}	5	-	-	ns	
R,G,B	Hold Time	t _{DH}	10	-	-	ns	
	Rise, Fall Time	t_t _{Dr, Df}		-	3	ns	

Note: (1) tCLKL / tCLK.





9.3 SYNC mode Input signal characteristics

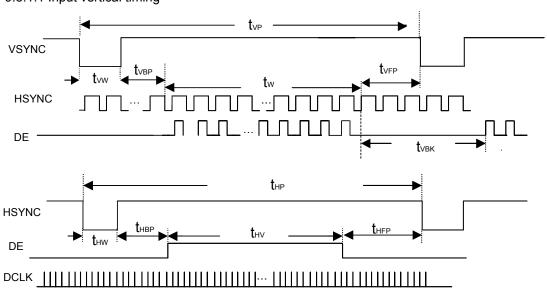
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Remarks
Clock Period	t _{CLK}	33	40	43	ns	
Clock Frequency	f _{CLK}	23	25	30	MHz	
Clock Low Level Width	t _{wcl}	6	-	-	ns	
Clock High Level Width	t _{wch}	6	-	-	ns	
Clock Rise, Fall Time	t t	-	-	3	ns	
HSYNC Period	t _{HP}	750	800	900	t _{CLK}	
HSYNC Pulse Width	t _{HW}	5	30	-	t _{CLK}	
HSYNC Front Porch	t _{HFP}	1	16	116	t _{CLK}	
HSYNC Back Porch	t _{HBP}	1	114	139	t _{CLK}	
HSYNC Width + Back Porch	t + t	144	144	144	t _{CLK}	
Horizontal Blank	t _{HBK}	1	160	260	t _{CLK}	
Horizontal Valid	t _{HV}	640	640	640	t _{CLK}	
VSYNC Period	t _{VP}	515	525	560	t _{HP}	
VSYNC Pulse Width	t _{vw}	1	3	5	t _{HP}	
VSYNC Front Porch	t _{VFP}	1	10	45	t _{HP}	
VSYNC Back Porch	t _{VBP}	30	32	34	t _{HP}	
VSYNC Width + Back Porch	t _{VW} +t _{VBP}	35	35	35	t _{CLK}	
Vertical Blank	t _{vbk}	35	45	80	t _{HP}	
Vaild data Width	t _w	480	480	480	t _{HP}	
Data Setup Time	t _{DS}	5	-	-	ns	
Data Hold Time	t _{DH}	10	-	-	ns	

Note: (1) thek = thep + thw + thep

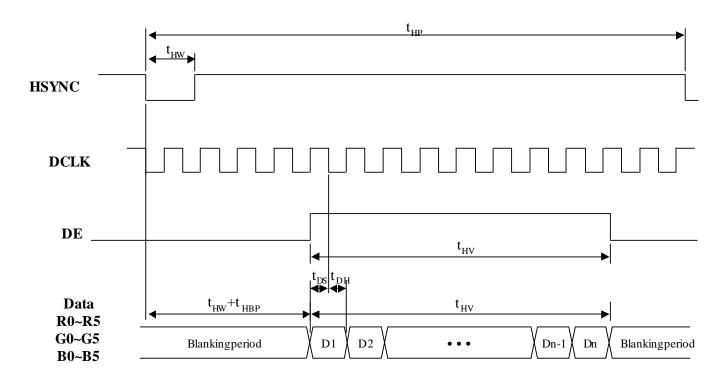


9.3.1 SYNC mode timing waveform

9.3.1.1 Input vertical timing



9.3.1.2 Input horizontal timing





9.4 Color Data Assignment

COLOR	INPUT		F	R DA	TA				1	G D	ATA				1	B D/	ATA	1	
	DATA	R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	В4	ВЗ	В2	В1	В0
		MSB					LSB	MSB					LSB	MSB					LSB
	BLACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	GREEN(63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
BASIC COLOR	BLUE(63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
OCLOIT	CYAN	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	MAGENTA	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	YELLOW	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	WHITE	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
	RED(1)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	RED(2)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
RED	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	RED(62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	RED(63)	1	1	1	1	1	1	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
	GREEN(1)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	GREEN(2)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
GREEN	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	GREEN(62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	GREEN(63)	0	0	0	0	0	0	1	1	1	1	1	1	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
	BLUE(1)	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	1	0
BLUE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
<u> </u>	BLUE(62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	BLUE(63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

Remarks:(1) Definition of Gray Scale color(n):n is series of Gray Scale he more n value is, the bright Gray Scale. (2)Data:1-High,0-Low

Correspondence between Data and Display Position



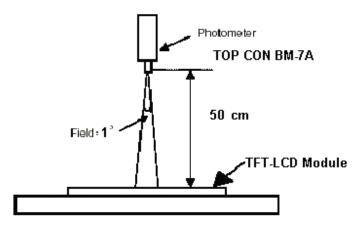
10. OPTICAL CHARACTERISTIC

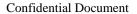
Specification:

Parameter	<u> </u>	Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
	Horizontal	θ_x +		-	80	-	deg	Note 1,4
Viewing		θ_{x} -	Center	-	80	-		
Angle	Vertical	θ _Y +	CR≥10	-	80	-		
		θ _Y -		-	80	-		
Contrast Ratio		CR	at optimized viewing angle	200	300	1		Note 1,3
Dognanaa tima	Rise	Tr	Center	-	15	-	ms	Note 1,6
Response time	Fall	Tf	θ x =θ y =0°	-	35	-	ms	
Uniformity		B-uni	θx=θy =0°	70	80	-	%	Note1,5
Brightness		L	θx=θy =0° ADJ=3.3V	500	630	-	cd/m²	Note 1,2
		X _W		0.259	0.309	0.359		Note 1,7
		y _W		0.270	0.320	0.370		
		X _R		0.565	0.615	0.665		
Chromaticity		y _R	Center	0.310	0.360	0.410		
Critomaticity		X _G	$\theta x = \theta y = 0^{\circ}$	0.295	0.345	0.395		
		У _G		0.490	0.540	0.590		
		X _B		0.098	0.148	0.198		
		y _в		0.056	0.106	0.156		
Image sticking		tis	2 hours	-	-	2	Sec	Note 8

The following optical specifications shall be measured in a darkroom or equivalent state(ambient luminance ≤ 1 lux, and at room temperature). The operation temperature is $25^{\circ}C\pm2^{\circ}C$. The measurement method is shown in Note1.

Note1: The method of optical measurement:





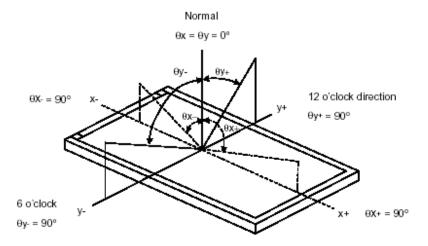


Note2: Measured at the center area of the panel and at the viewing angle of the $\theta x = \theta y = 0^{\circ}$ Note3: Definition of Contrast Ratio (CR):

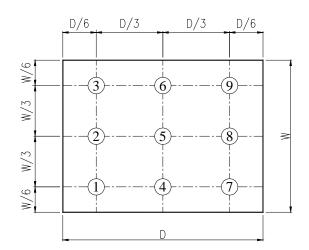
CR = Luminance with all pixels in white state

Luminance with all pixels in Black state

Note4: Definition of Viewing Angle



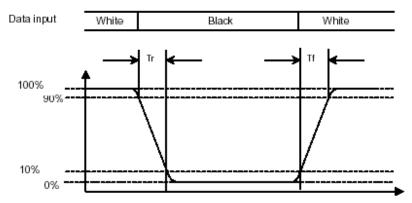
Note 5: Definition of Brightness Uniformity (B-uni):





Note6: Definition of Response Time:

The Response Time is set initially by defining the "Rising Time (Tr)" and the "Falling Time (Tf)" respectively. Tr and Tf are defined as following figure.



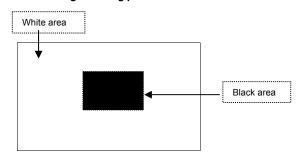
Note 7: Definition of Chromaticity:

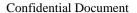
The color coordinates (x_W,y_W) , (x_R,y_R) , (x_G,y_G) ,and (x_B,y_B) are obtained with all pixels in the viewing field at white, red, green, and blue states, respectively.

Note 8: Definition of Image sticking (tis):

Continuously display the test pattern shown in the figure below for 2 hours. Then display a completely white screen. The previous image shall not persist more than 2 sec at 25 °C

Image sticking pattern







11. QUALITY ASSURANCE

11.1 Test Condition

11.1.1 Temperature and Humidity(Ambient Temperature)

Temperature : $25 \pm 5^{\circ}$ C Humidity : $65 \pm 5\%$

11.1.2 Operation

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

11.1.3 Container

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

11.1.4 Test Frequency

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

11.1.5 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	Thermal Cycling Test (No operation)	-30°C → $+25$ °C → $+80$ °C,200 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)	150pF,330Ω Air:± 12KV;Contact: ±6KV 10 times/point;4 points/panel face	IEC-61000-4-2

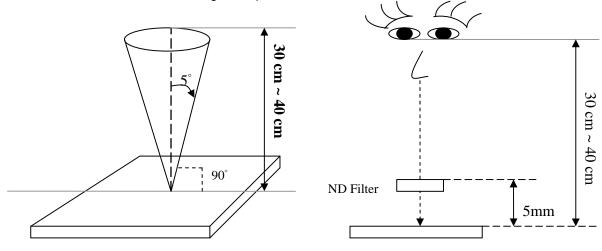


11.2 Inspection condition

11.2.1 Inspection conditions

11.2.1.1 Inspection Distance : 35 ± 5 cm

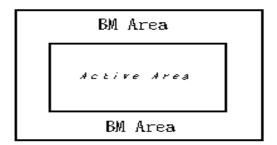
11.2.1.2 View Angle: Inspection under test condition: ±5°

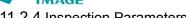


11.2.2 Environment conditions:

Ambient Tempera	25±5 ℃	
Ambient Humidity	65±5%	
Ambient	Cosmetic Inspection	300 ~600 lux
Illumination	Functional Inspection	300 ~ 500 lux

11.2.3 Definition of applicable Zones





	2.4 Inspection Paran	
No.	Parameter	Criteria
		Display function: No Display malfunction (Major) Contrast ratio (Black, White): Does not meet specified range in the spec. (Major) (Note:3) Line Defect: No obvious Vertical and Horizontal line defect in bright dark and colored. (Major) (Note:1)
		Point Defect : Active area ≤ 5 dots (Minor) (Note:1)
		Item Acceptable number Active Area Total
		Bright 2
		Dark 4
1	Operating	Non-uniformity: Visible through 5%ND filter. (Minor)
		Foreign material in Black or White spots shape (W>1/4L)
		Zone Acceptable Class Of AQL Level
		Dimension Defects D> 0.5 0
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
		D = (Long + Short) / 2 * : Disregard
		Foreign Material in Line or spiral shape (W≤1/4L) (Note: 4) Zone Class According to the control of the control
		Acceptable Of AQL Number
		L (mm) W(mm) Defects Level L >5 W>0.1 0
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		L: Length W: Width *: Disregard
		Dimension: Outline (Major) Bezel appearance: uneven (Minor)
		Scratch on the polarize: (Note:2)
		Zone Accepta Class AQL ble Of Defects Level
		L (mm) W(mm) number W>0.1 0 Minor 1.5
		L ≤ 3 W≤0.1 3
2	External Inspection (non-operating)	L : Length W : Width * : Disregard Dent or bubble on the polarize (Note:2)
	, , , , , , , , , , , , , , , , , , ,	Zone Acceptable Class Of AQL
		Delects Delects Minor 15
		D≤0.5 3 Willion 1.3

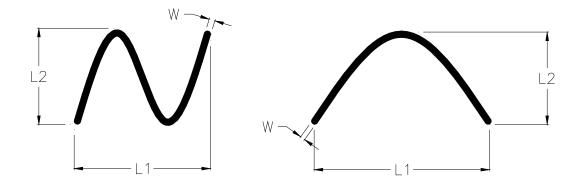
D = (Long + Short) / 2 *: Disregard



			Community Document
			Definition
defects	Maior	AQL 0.65%	It is a defect that is likely to result in failure or to reduce materially
	IVIAJOI		the usability of the product for the intended function.
		ΔOI 15%	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 dot respectively

- (b)Dark point defect is defined as visible in full white pattern.
- (c)Definition of distribution of point defect is as follows:
 - -minumum separation between dark point defects should be larger than 5mm.
 - -minumum separation between bright point defects should be larger than 5mm.
- (d)Definition of joined bright point defect and joined dark point defect are as follows:
 - -Three or more joined bright point defects must be nil.
 - -Three joined dark point defects must be nil.
 - -Coupling of one dark and one bright point in junction is counted as one dark and bright spot with 1 pair maxmum.
 - -Two Joined dark point is counted as two dark point with 2 pair maxmum.
- (e))Line defect is defined as visible by using 5% ND filter.
- Note:2 The external inspection should be conducted at the distance $35\pm$ 5cm between the eyes of inspctor and the panel .
- Note:3 Luminance measurement for contrast ratio is at the distance $50\pm$ 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.



11.3 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

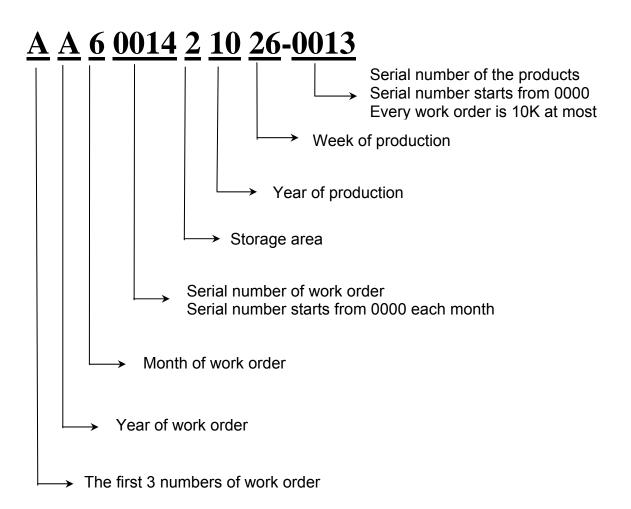
Inspection level: Level II



Product Label style:

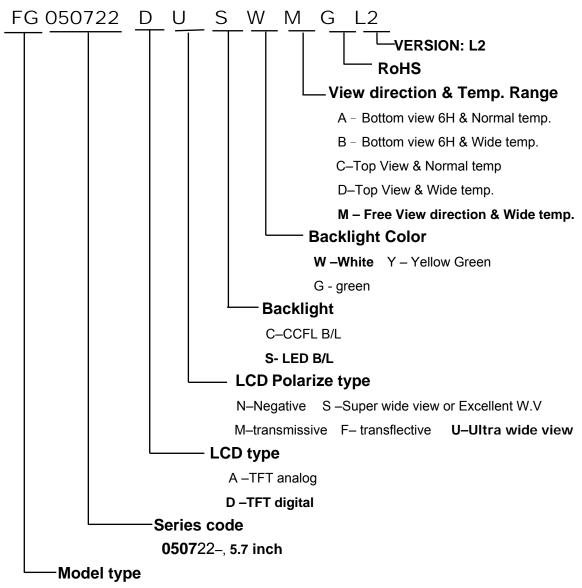


Barcode Define:





Product Name Define:



FG-Standard TFT Module

FX-Custom TFT Module



13. PRECAUTION IN USE LCM

1. ASSEMBLY PRECAUTIONS

- (1) You must mount a module using holes arranged in four corners or four sides.
- (2) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- (3) Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment.
- (4) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (5) Do not open the case because inside circuits do not have sufficient strength.
- (6) Please do not take a LCD module to pieces and reconstruct it.Resolving and reconstructing modules may cause them not to work well.
- (7) Please do not touch metal frames with bare hands and soiled gloves. A color change of the metal frames can happen during a long preservation of soiled LCD modules.
- (8) Please pay attention to handling lead wire of backlight so that it is not tugged in connecting with inverter.

2. OPERATING PRECAUTIONS

- (1) Please be sure to turn off the power supply before connecting and disconnecting signal input cable.
- (2) Please do not change variable resistance settings in LCD module. They are adjusted to the most suitable value. If they are changed, it might happen LCD does not satisfy the characteristics specification
- (3) Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- (4) When fixed patterns are displayed for a long time, remnant image is likely to occur.
- (5) Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimize the interference.
- (6) Please consider that LCD backlight takes longer time to become stable of radiation characteristics in low temperature than in room temperature.

3. ELECTROSTATIC DISCHARGE CONTROL

(1) The operator should be grounded whenever he/she comes into contact with the module. Never touch any of the conductive parts such the copper leads on the PCB and the interface

- 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.
- (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.

4. STORAGE PRECAUTIONS

- (1) When you store LCDs for a long time, it is recommended to keep the temperature between 0°C-40°C without the exposure of sunlight and to keep the humidity less than 90%RH.
- (2) Please do not leave the LCDs in the environment of high humidity and high temperature such as 60°C 90%RH
- (3) Please do not leave the LCDs in the environment of low temperature; below -20°C.

5. OTHERS

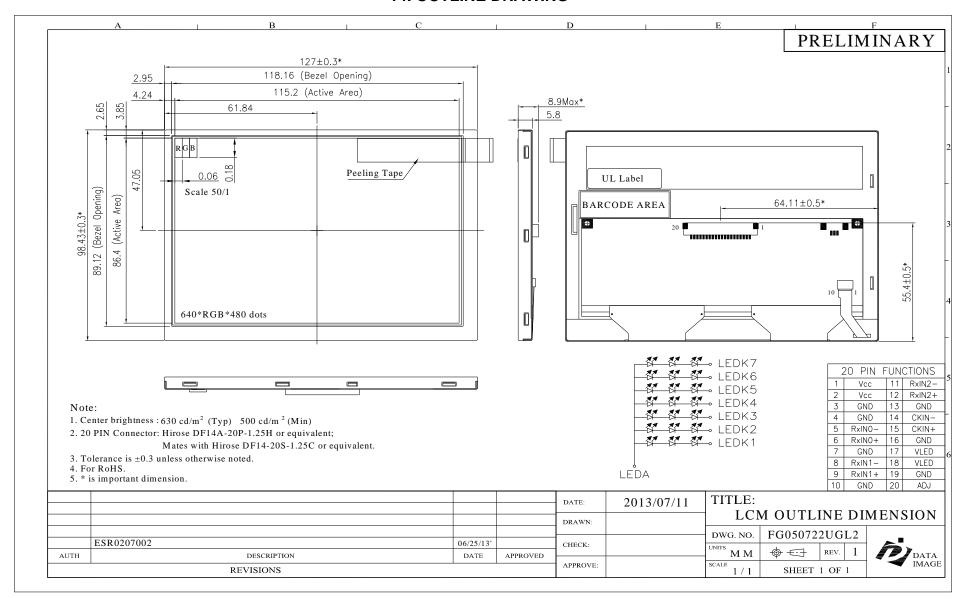
- (1) A strong incident light into LCD panel might cause display characteristics' changing inferior because of polarizer film, color filter, and other materials becoming inferior. Please do not expose LCD module direct sunlight Land strong UV rays
- (2) Please pay attention to a panel side of LCD module not to contact with other materials in preserving it alone.
- (3) For the packaging box, please pay attention to the followings:
- (4) Please do not pile them up more than 5 boxes. (They are not designed so.) And please do not turn over.
- (5) Please handle packaging box with care not to give them sudden shock and vibrations. And also please do not throw them up.
- (6) Packing box and inner case for LCDs are made of cardboard. So please pay attention not to get them wet. (Such like keeping them in high humidity or wet place can occur getting them wet.)

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.

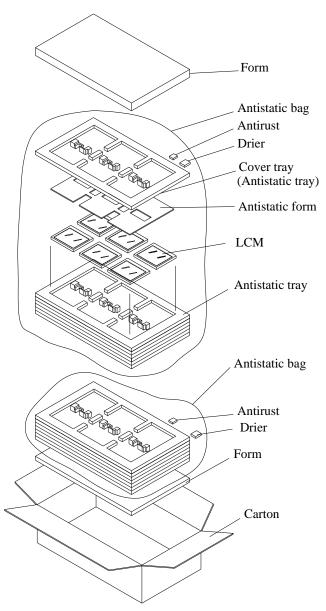


14. OUTLINE DRAWING





15. PACKAGE INFORMATION



Material

1 Carton + 2 Anti-static bag + 1 Form(35mm) + 1 Form(15mm)

+ 14 Anti-static tray + 2 Drier + 2 Antirust

Total pcs

1 Antistatic tray = 6 pcs

1 Anti-static bag = 6 Anti-static tray + cover tray = 6*6 + 1*0 = 36 pcs

1 Carton = 2 Anti-static bag = 2*36 = 72 pcs

1 Carton = 72pcs

Carton size : 482L x 282W x 279H (mm)

FG050722 TFT LCM PACKING