

Date: 2014/10/09

Specifications for Approval

Customer	:	Mc'Tronic	
Model name	:	GY1206P6FSW7G06	REV: A
Description	:	LCM (Y1206P6FSW706 – DD682 -	- E0818A)
LCD Specification	:	LCD (SDD682 – 100 – 8223 – 1408	13 – 1)

ENG	CHECK	QA	APPROVAL
Guizhi	Bose	Wallace	Michael

	Accept Reject Comment:
Customer Approval	
	Approved by:



REVISION RECORD (MODEL NO.: GY1206P6FSW7G06)

Revision	Revision Date	Page	Contents
А	2014/10/09		Initial Release and Issue Full Specification.





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MODEL GY1206P6FSW7G06 1/18 PRODUCT SPECIFICATIONS RE
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1. FEATURES

The features of LCD are as follows

* Display mode	: FSTN, Positive, Transflective
* Color	: Display dot : Black
	Background: White
* Display Format	: 128Dots × 64Dots graphic
* IC	: Sitronix ST7565R-G
* Interface Input Data	: 8-Bit Parallel 6800 / 4-Line SPI MPU Interface
* Driving Method	: 1/65 Duty, 1/9 Bias
* Viewing Direction	: 12 O'clock
* Backlight	: LED (White)

* LCM technological conditions: RoHS

2. MECHANICAL SPECIFICATIONS

ltem	Specification	Unit
Module Size	67.15(W) X 63.075(H) X 5.3(T)	mm
Viewing Area	61.0(W) X 31.4(H)	mm
Effective Display Area	57.57(W) X 28.77(H)	mm
Number of Dots	128 X 64 Dots	-
Dot Size	0.42(W) X 0.42(H)	mm
Dot Pitch	0.45(W) X 0.45(H)	mm

3. ELECTRICAL SPECIFICATIONS

3-1. Absolute Maximum Ratings (Vss=0V)

	ltem			Sta			
			Symbol		Тур.	Max.	Unit
S	Supply Voltage For Logic)	0.3	-	5.0	V
Sup	Supply Voltage For LCD Drive		DUT	0.3	-	18.0	V
	Operating Temp.		5	-20	-	+70	°C
	Storage Temp.		Г	-30	-	+80	°C
	Static Electricity	Be sue	e that yo	u are gro	und wh	en handing	g LCM
-							
ODEL	GY1206P6FSW7G06	2/18	PRO	DDUCT S	PECIF	ICATIONS	F

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3. ELECTRICAL SPECIFICATIONS (Continued)

3-2-1. Electrical Characteristics

ltem		Symbol	Test Condition	Min.	Тур.	Max.	Unit
Supply Voltage For Logic		Vdd - Vss	-	1.8	3.3	3.3	V
Supply Voltage	For LCD	V0-Vss	-	8.0	8.3	8.6	V
Input Voltage	"H" Level	V _{IH}	-	0.8Vdd	-	Vdd	V
	"L" Level	V IL		Vss	-	0.2Vdd	V
Output Voltage	"H" Level	V _{OH}	I _{OUT} = -0.5mA	0.8Vdd	-	Vdd	V
	"L" Level	V _{OL}	I _{OUT} = 0.5mA	Vss	-	0.2Vdd	V
Current Consu	Imption	I _{DD}	$V_{IN} = V_{DD}$	-	1.50	3.0	mA

NOTE: 1) Duty ratio=1/65, Bias=1/9

2) Measured in Dots ON-state

3-3.BACKLIGHT

3-3-1. Absolute Maximum Ratings

ltem	Symbol	Condition	Min.	Тур.	Max	Unit
Forward Current	IF	Ta= 25℃	-	-	100	mA
Reverse Voltage	VR		-	-	10	V
Power Dissipation	PD	Ta= 25 ℃	-	-	420	mW

3-3-2. Opto-electronic Characteristics

ltem	Symbol	Condition	Min.	Тур.	Max	Unit
Forward Voltage	VF	IF= 60mA	3.8	4.0	4.2	V
Reverse current	IR	VR=10V	-	-	60	uA
Luminous intensity	LV	IF=60mA	450	600	-	cd/m²
Avg.X of 1931 C.I.E	X	IF=60mA	0.25	0.28	0.31	
Avg.Y of 1931 C.I.E	Y	IF=00IIIA	0.25	0.28	0.31	-

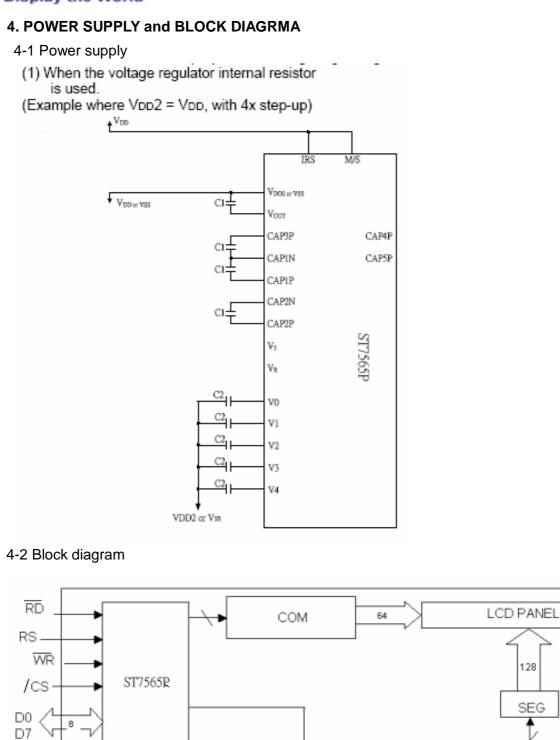
* The brightness is measured without LCD panel

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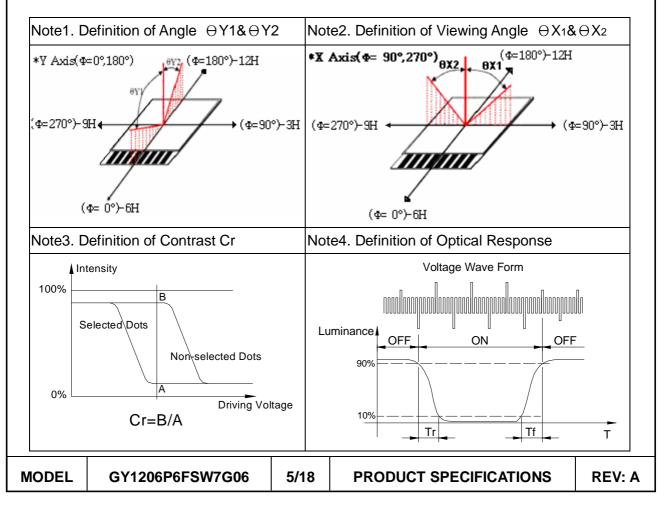
PRODUCT SPECIFICATIONS

GY1206P6FSW7G06



5. ELECTRO – OPTICAL CHARACTERISTICS

ltem		Symbol	Temp.	Min.	Тур.	Max.	Unit	Conditions	Note
	$\Phi=0^{\circ}$ $\ominus 1$ Viewing Angle $\Phi=180^{\circ}$ $\ominus 2$				33				
0			25 ℃		35		Dea		1.0
Cr <u>></u> 2	Φ=90°	⊖3	250		28		Deg.	-	1,2
	Φ=270°	θ4			32				
Viev	Viewing Direction					12 O'clo	ck		
Contrast Ratio		Cr	25 °C	2.0	5.08	5.18	-	$\Theta = 0^{\circ}$ $\Phi = 0^{\circ}$	3
Respo	Response		25 °C	-	96	300	ms	$\Theta = 0^{\circ}$	4
Time(rise)	Tr	0 °C	-	1250	1650	1115	$\Phi = 0^{\circ}$	-
Respo	onse	Tf	25 °C	-	218	300	ms	$\Theta = 0^{\circ}$	4
Time	(fall)	11	0 °C	-	1250	1650	1115	$\Phi = 0^{\circ}$	4





6. INTERFACE PIN FUNCTION

Pin NO.	Symbol	1/0		Functions		
1	/CS	I	This is the chip se	lect signal.		
2	/RES	I	Vhen RES is set t	o "L", the setting are initialized.		
3	A0	Ι		the least significant bit of the Norman M t determines whether the data bits are c		
4	WR(/WR)	I	The data bus are I	atched at the rising edge of the WR sigr	nal	
5	RD(/RD)	I	he data bus is in	output status when this signal is "L"		
6~13	D0~ D7	I/O	This is an 8-bit bi- 6-bit standard MF	directional data bus that connects to an PU data bus.	8-bit oı	
14	V_{DD}	Power supply	Power supply			
15	V_{SS}	Power supply	Ground			
16	V _{OUT}	0	DC/DC voltage co erminal and v_{ss} or	nverter. Connect a capacitor between th VDD	is	
17	NC	/	No connect			
18	CAP3+	0	DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1N terminal.			
19	CAP1-	0	DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1P terminal.			
20 CAP1+ O DC/DC voltage converter. Connect a capacitor between this terminal and the CAP1N terminal.				is		
21	CAP2+	0	DC/DC voltage converter. Connect a capacitor between this terminal and the CAP2N terminal.			
22	CAP2-	0	DC/DC voltage converter. Connect a capacitor between this terminal and the CAP2P terminal.			
22~26	V4~ V0	Power supply	This is a multi-level power supply for the liquid crystal drive.			
27	P/S	I		s the interface to parallel mode or serial ata input/output. P/S="L":Serial data inp		
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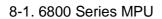


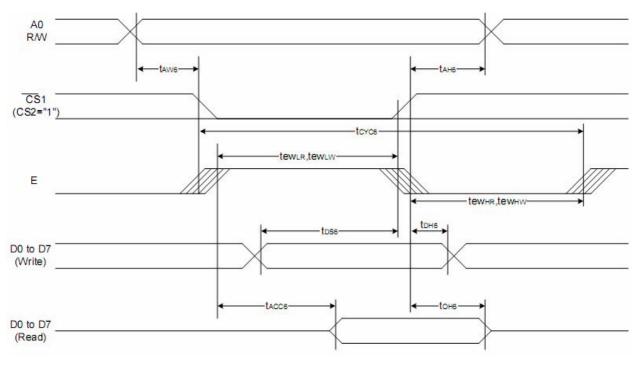
7. COMMAND LIST

Command					nma							Function
	A0	/RID	/WR	D7	The section of			D3			THE THE	
1) Display ON/OFF	Ο	1	Ð	Ť	٥	1	D	1	1	1	0 1	LCD display ON/OFF 0: OFF, 1: ON
2) Display start line set	٥	1	0	Ð	1	DI	spila	ly ista	art ai	didire	195	Sets the display RAM display star line address
3) Page address set	٥	1	Ð	1	D	1	1	Pa	ge a	ddin	ess	Sets the display RAM page address
4) Column address set	0	1	Ð	0	Ð	0	1				cant	Sets the most significant 4 bits of
upper bit Column address set lower bit	0	1	0	0	Β	0	0	Les	st si	gnif	iress icant iress	the display RAM column address. Sets the least significant 4 bits of the display RAM column address.
5) Status read	0	0	1		St	atus		B	O	0	0	Reads the status data
6) Olsplay data write	1	1	Ð			1	Nrib	e dat	a.			Writes to the display RAM
7) Olsplay data read	1	0	1				Rea	d dai	ta			Reads from the display RAM
8) ADC select	0	1	0	1	D	1	0	0	D	a	0 1	Sets the display RAM address SEG output correspondence 0: normal, 1: reverse
9) Display normal/ reverse	0	1	0	1	0	1	0	0	1	1	0 1	Sets the LCD display normal/ reverse 0: normal, 1: reverse
10) Display all points ON/OFF	0	1	0	1	D	1	0	0	1	0	0 1	Display all points 0: normal display 1: all points ON
11) LCD blas set	٥	1	0	1	D	1	٥	0	0	1	0	Sets the LCD drive voltage blas ratio
12) Read/modify/write	٥	1	0	1	1	1	D	0	0	D	0	0: 1/9 blas, 1: 1/7 blas (8T7565P) Column address increment At write: +1 At read: 0
13) End	0	1	0	1	1	1	0	1	1	1	0	Clear read/modify/write
14) Reset	0	1	0	1	1	1	D	0	0	1	0	Internal reset
15) Common output mode select	٥	1	0	1	1	0	٥	0 1	•	-	•	Select COM output scan direction 0: normal direction 1: reverse direction
16) Power control set	0	1	0	0	D	1	0	1		era ide	ting	Select Internal power supply operating mode
17) Vo voltage regulator Internal resistor ratio	0	1	0	0	0	1	0	0	Re	sist tio	ar	Select Internal resistor ratio(Rb/Ra) mode
set 18) Electronic volume mode set Electronic volume register set	٥	1	0	1 0	0			0 nic v	0 olun	0 ne v	1 alue	Set the Vo output voltage electronic volume register
19) Static Indicator ON/OFF Static Indicator	0	1	0	1	D	1		1	1		0 1	0: OFF, 1: ON
register set				0	٥	0	0	0	0	B	Mode	Set the flashing mode
20) Booster ratio set	0	1	0	1 0	1 0	1 0	1 0		0	ste	0 p-up slue	select booster ratio 00: 2x,3x,4x 01: 5x 11: 5x
21) Power saver												Display OFF and display all points ON compound command
22) NOP	٥	1	0	1	1	1	0	0	0	1	1	Command for non-operation
23) Test	0	1	0	1	1	1	1			•		Command for IC test. Do not use this command
ODEL GY1206F	P6F	SW7	G06		7/1	8		PR	OD	UC	T SF	PECIFICATIONS REV:



8.TIMING CHARACTERISTICS





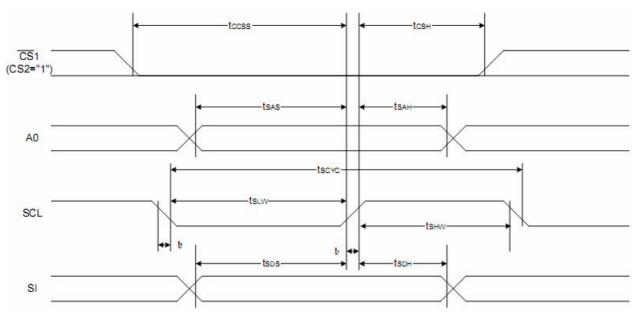
Item	Cignal	Sumbol	Condition	Rating		
item	Signal	Symbol	Condition	Min.	Max.	Units
Address hold time		tah6		0	3 <u>—</u>	
Address setup time	A0	taw6		0	—	
System cycle time		tcyc6		240	—	
Enable L pulse width (WRITE)	WR	tewlw		80	<u> </u>	
Enable H pulse width (WRITE)	VVIC	t ew n w		80		
Enable L pulse width (READ)	RD	tewlr		80	_	ns
Enable H pulse width (READ)	KU	tewnr		140	1 4 	
WRITE Data setup time		tDS6		40	·	
WRITE Address hold time	D0 to D7	tDH6		0	-	
READ access time		tACC6	CL = 100 pF	-	70	
READ Output disable time		toнe	CL = 100 pF	5	50	

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8.TIMING CHARACTERISTICS

8-2. 4-Line SPI Interface



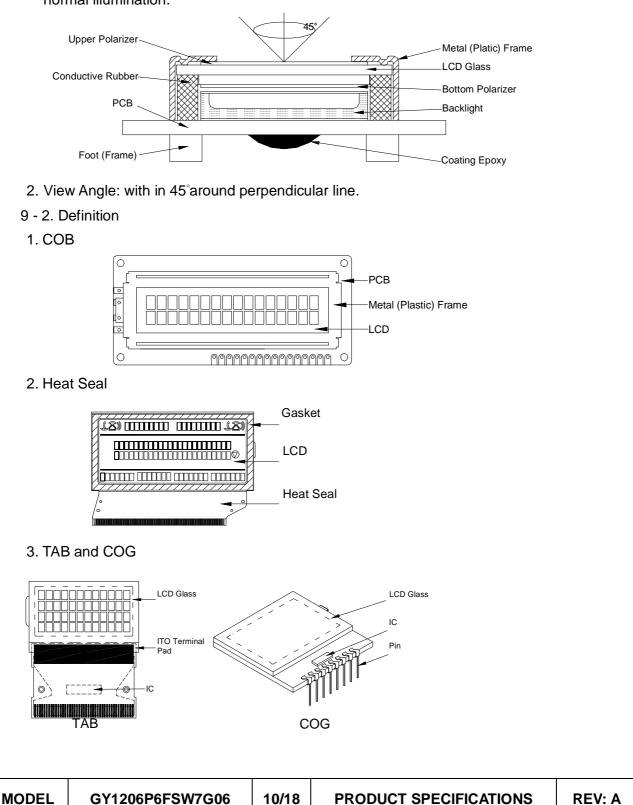
Item	Signal	Symbol	Condition	Rat	ting	Units
Item	Signal	Symbol	Condition	Min.	Max.	Units
4-Iine SPI Clock Period		Tscyc		50	-	-22
SCL "H" pulse width	SCL	Tshw		25		
SCL "L" pulse width		TSLW		25	_	
Address setup time	A0	TSAS		20	-	
Address hold time	AU	Tsah		10	-	ns
Data setup time	SI	Tsds		20		
Data hold time	51	Тѕрн		10		
CS-SCL time	CS	Tcss		20		
CS-SCL time	CS	Tcsh		40		8

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9. QUALITY SPECIFICATION

- 9 1. LCM Appearance and Electric inspection Condition
 - 1. Inspection will be done by placing LCM 30cm away from inspector's eyeballs under normal illumination.





9. QUALITY SPECIFICATION (Continued)

- 9-3. Sampling Plan and Acceptance
- 1.Sampling Plan

MIL - STD - 105E (\parallel) ordinary single inspection is used.

2.Acceptance

Major defect:	AQL = 0.25
Minor defect:	AQL = 0.65

9-4. Criteria

1.COB

Defect	Inspection Item	Inspection Standards	
Major	PCB copper flakes peeling off	Any copper flake in viewing Area should be greater than 1.0mm ²	Reject
Major	Height of coating epoxy	Exceed the dimension of drawing	Reject
Major	Void or hole of coating epoxy	Expose bonding wire or IC	Reject
Major	PCB cutting defect	Exceed the dimension of drawing	Reject

2.SMT

marking not readable ponent height er defect (missing , extra, nt or wrong orientation nent position shift nponent soldering pad	Exceed the dimension Of drawing X < 3/4Z Y > 1/3D	Reject Reject Reject Reject
er defect (missing , extra, at or wrong orientation nent position shift nponent soldering pad	Of drawing X < 3/4Z	Reject
nent position shift nponent soldering pad	X < 3/4Z	Reject
mponent soldering pad		•
g pad	Y > 1/3D	Reject
fficient solder component PAD PCB	<i>θ</i> ≤ 20°	Reject
	fficient solder component PAD	fficient solder component PAD $\theta \le 20^{\circ}$



9. QUALITY SECIFICATION (Continued)

9-4. Criteria (Continued)

3. Metal (Plastic) Frame

Defect	Inspection Item	Inspection Item Inspection Standar			
Major	Crack / breakage	Any	/where	Reject	
		W	L	Acceptable of Scratch	
		w<0.1mm	Any	Ignore	
		0.1 <u><</u> w<0.2mm	L <u><</u> 5.0mm	2	
Minor	Frame Scratch	0.2 <u><</u> w<0.3mm	L <u><</u> 3.0mm	1	
-		w <u>></u> 0.3mm	Any	0	
		Note : 1. Above criteria applicable to scratch lines with distance greater than 5mm. 2. Scratch on the back side of frame (not visible) can be ignored.			
				Acceptable of Dents / Pricks	
		Φ <u><</u>	1.0mm	2	
	Frame Dent , Prick	1.0<⊕ <u><</u> 1.5mm		1	
Minor	$\Phi = \frac{L + W}{2}$	1.5mm<⊕		0	
	2	Note : 1. Above criteria applicable to any two den / pricks with distance greater than 5mm 2. Dent / prick on the back side of frame (r visible) can be ignored			
Minor	Frame Deformation	Excee	d the dimension of	drawing	
Minor	Metal Frame Oxidation		Any rust		

4. Flexible Film Connector (FFC)

Defect	Insp	ection Item	Inspection Standards				
Minor	Tilted soldering		Within the angle +5°	Acceptable			
Minor	Uneven s	older joint /bump		Reject			
Minor	Hole	$\Phi = \frac{L + W}{2}$	Expose the conductive line	Reject			
	$\Psi = \frac{1}{2}$	Φ > 1.0mm	Reject				
	Position shift $Y \xrightarrow{-\psi} -\psi$		Y > 1/3D	Reject			
Minor			X > 1/2Z	Reject			

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9. QUALITY SPECIFICATION (Continued)

9-4. Criteria (Continued)

Defect	Inspection Item	Inspection Standards			
Major	Screw missing/loosen		Reject		
Minor	Screw oxidation	Any rust	Reject		
Minor	Screw deformation	Difficult to accept screw driver	Reject		
6. Heat sea	al 、TCP 、FPC				
Defect	Inspection Item	Inspection Standards			
Major	Scratch expose conductive layer		Reject		
Minor	HS Hole $\Phi = \frac{L+W}{2}$	Φ > 0.5mm	Reject		
Major	Adhesion strength	Less than the specification	Reject		
Minor	Position shift $Y \xrightarrow{-\psi} -\psi$	Y > 1/3D	Reject		
WINOT		X > 1/2Z	Reject		
Major	Conductive line break		Reject		
7. LED Backing Protective Film and Others					

Inspection Item	Inspection Standards					
	Acceptable number of units					
LED dirty, prick	⊕ <u><</u> 0.10mm	Ignore				
	0.10<⊕ <u><</u> 0.15mm	2				
	0.15<⊕ <u><</u> 0.2mm	1				
	Φ >0.2mm	0				
Protective film tilt	Not fully cover LCD	Reject				
COG coating	Not fully cover ITO circuit	Reject				
	LED dirty, prick Protective film tilt	LED dirty, prick Acceptable number of units $\Phi \leq 0.10$ mm $0.10 < \Phi \leq 0.15$ mm $0.15 < \Phi \leq 0.2$ mm $\Phi > 0.2$ mm The distance between any two spots should be $\geq A$ ny spot/dot/void outside of viewing area is accepted. Protective film tilt				

8. Electric Inspection

I	Defect	Inspection Item	Inspection Standards	
	Major	Short		Reject
	Major	Open		Reject

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9. QUALITY SPECIFICATION (Continued)

9-4. Criteria (Continued)

9. Inspection Specification of LCD

	Insp	pect Item			I	nsp	pection		Standard	S	
		* Glass Scrate	ch	W	١	₩ <u><</u> 0	0.03	0	.03 <w<u><0.0</w<u>	5 \	N>0.05
				L		L<	:5		L<3		Any
Minor	Linear Defect	* Polarizer Scratch* Fiber and Linear		ACC. NO.		1			1		Reject
		material		Note	L is the	len	gth and V	V is th	ne width of	the de	efect
		* Foreign mat	erial	Φ	Φ <u><</u> 0.	1	0.1<⊕ <u><</u>	0.15	0.15<⊕ <u><</u> 0	.2	Ф >0.2
	Black Spot and	between glass polarizer or gla	and	ACC. NO.	3EA 100mr	/ m²	2		1		0
Minor	Polarizer Pricked	and glass * Polarizer ho protuberance b external force		Note			•		er of the de fects > 10n		
		* Unobvious		Φ	(⊅ <u><</u> 0).3	0.3	8<⊕ <u><</u> 0.5	0.	. 5< Φ
	White Spot	transparant for material betwe	en	ACC. NO.	3EA	/ 10	0mm ²		1		0
Minor and Bubble in polarizer		glass and glass glass and pola * Air protuber between polari and glass	rizer ance	Note			•		er of the de fects > 10n		
			TH.	Φ	⊕ <u><</u> 0.1		0.10<⊕ <u>·</u>	<u><</u> 0.20	0.20< ⊕	<u><</u> 0.25	⊕>0.25
	Segment Defect]	ACC. NO.	. 3EA / 2 100mm ²			1		0	
Minor)		W is m	ore	than 1/2	segm	ent width		Reject
				Note	$\Psi = -$		<u> </u>	vo de	fect is 10m	m	
				Φ	Φ <u><</u> 0.1	0	0.10<⊕ <u><</u> 0.20 0.20<⊕ <u><</u> 0.2		<0.25	Φ>0.2	
Minor	Protuberant			W	Glue				W <u><</u> 1/2	/ <u><</u> 1/2 Seg W<0.2 Ignore	
	Segment	Φ = (L + W) / 2	2	ACC. NO.	3EA / 100mr	/ n ²	2	.2	1		0
				1. Seg	ment						
				E	3	B<(0.4mm	0.4<	B <u><</u> 1.0mm	B>'	1.0mm
	Assembly			B-	B-A B-A<1/2B		В	B-A<0.2 B-A		A<0.25	
Minor	Mis-alignment	┝╍╔┙	Α		dge Acceptable			Ac	Acceptable Acceptable		
					2. Dot Matrix Deformation>2° Re					Reject	
			i					<u> </u>		.:41	-
Minor	Stain on LCD Panel Surface			ora	similar	one	. Otherw	/ise,	ed lightly w judged ac Vhite Spot"		
							-		•		
		1									



10. RELIABILITY

NO.	ltem	Condition	Criterion	
1	High Temperature Operating	70 ℃, 96Hrs		
2	Low Temperature Operating	-20℃, 96Hrs		
3	High Humidity	60℃, 90%RH, 96Hrs		
4	High Temperature Storage	80℃, 96Hrs	No defect in cosmetic	
5	Low Temperature Storage	-30℃, 96Hrs	and operational function allowable.	
		Random wave	Total current Consumption should	
G	Vibration	10 ~ 100Hz	be below double of initial value.	
6		Acceleration: 2G		
		60 Minute		
		-10℃ to 25℃ to 50℃		
7	Thermal Shock	(60Min) (15Min) (60Min)		
		10Cycles		
8		Contract Discharge Voltage: +1 ~ 5kV and -1 ~ -5kV	discharged ten times	
		Air Discharge Voltage: +1 ~ 8kV and –1 ~ -8kV	at every discharging voltage cycle. The voltage gap is 1kV.	

Note: 1) Above conditions are suitable for GOLDENTEK standard products.

2) For restrict products, the test conditions listed as above must be revised.

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11. HANDLING PRECAUTION

(1) Mounting Method

The panel of the LCD Module consists of two thin glass plates with polarizers which easily get damaged since the Module is fixed by utilizing fitting holes in the printed circuit board. Extreme care should be taken when handling the LCD Modules.

(2) Caution of LCD handling & cleaning

When cleaning the display surface, use soft cloth with solvent (recommended below) and wipe lightly.

- Isopropyl alcohol
- Ethyl alcohol
- Trichlorotrifloroethane

Do not wipe the display surface with dry or hard materials that will damage the polarizer surface.

Do not use the following solvent:

- Water
- Ketone
- Aromatics
- (3) Caution against static charge

The LCD Module use C-MOS LSI drivers, so we recommend that you connect any unused input terminal to VDD or VSS, do not input any signals before power is turned on. And ground your body, Work/assembly table. And assembly equipment to protect against static electricity.

(4) Packaging

- Modules use LCD elements, and must be treated as such. Avoid intense shock and falls from a height.

- To prevent modules from degradation. Do not operate or store them exposed directly to sunshine or high temperature/humidity.
- (5) Caution for operation
 - It is indispensable to drive LCD's within the specified voltage limit since the higher voltage than the limit shorten LCD life. An electrochemical reaction due to direct current causes LCD deterioration, Avoid the use of direct current drive.

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11. HANDLING PRECAUTION (Continued)

- Response time will be extremely delayed at lower temperature than the operating temperature range and on the other hand at higher temperature LCD's show dark color in them.

However those phenomena do not mean malfunction or out of order with LCD's. Which will come back in the specified operating temperature range.

- If the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.
- A slight dew depositing on terminals is a cause for electro-chemical reaction resulting in terminal open circuit.

Usage under the relative condition of 40°C, 80%RH or less is required.

(6) Storage

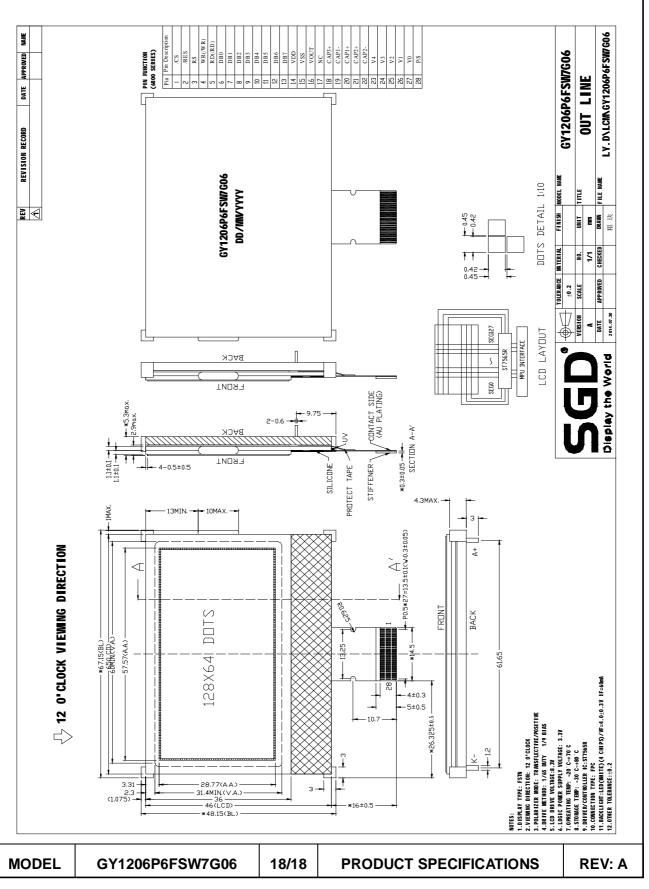
In the case of storing for a long period of time (for instance ,for years) for the purpose or replacement use, The following ways are recommended.

- Storage in a polyethylene bag with sealed so as not to enter fresh air outside in it, And with no desiccant.
- Placing in a dark place where neither exposure to direct sunlight nor light is. Keeping temperature in the specified storage temperature range.
- Storing with no touch on polarizer surface by the anything else. (It is recommended to store them as they have been contained in the inner container at the time of delivery)
- (7) Safety
 - It is recommendable to crash damaged or unnecessary LCD into pieces and wash off liquid crystal by using solvents such as acetone and ethanol.
 - Which should be burned up later.
 - When any liquid crystal leaked out of a damaged glass cell comes in contact with your hands, please wash it off well with soap and water.

MODEL	GY1206P6FSW7G06	17/18	PRODUCT SPECIFICATIONS	REV: A



12. OUTLINE DIMENTION





SAMPLE OUTGOING INSPECTION REPORT (LCM)

Data: 2014/10/09

NO.: QAE10001

Cu	stomer	Product NO.					Driving Voltage			Testing Condition		Quantity	
Mc'Tronic		(GY1206P6FSW7G06				VOP: 8.3V		25 ℃		1Pcs		
		1				Ins	spectio	n Result		I			
I	tems	Specification											
Displ	ay Mode	W / B Mode O B / W Mode O Yellow Mode O Blue Mode O Gray Mode											
Polar	izer Type						• Tra	ansflective		⊖ Transmissive			
Viewing direction						6 O'c	lock		⊖ 9 O'c	lock	k • 12 O'clock		
						Elect	rical / A	Appearanc	e				
ltem			Inspection Method				Specification			Inspection Result			
Appearance			Spot Gauge Caliper				Final Inspection Criteria			a • 0	ĸ	\bigcirc NG	
Electrical			LCM Tester				Product Specification			• 0	ĸ	\bigcirc NG	
Pattern			LCM Tester				Drawing			• 0	к	\bigcirc NG	
					D	imens	ion / S	upply Cur	rent	i			
ltem	Spec.(mm)		NO.1	NO.2	NO.3	NO.4	NO.5	Result		Fig.			
L1	67.15 <u>+</u> 0	7.15 <u>+</u> 0.2		67.31	67.29	67.28	67.30	• ОК	\bigcirc NG				
L2	14.5 <u>+</u> 0.3		14.65	14.55	14.63	14.58	.58 14.49 • OK 🔿 NG						
W1	48.15 <u>+</u> 0.2		48.30	48.26	48.21	48.30	48.31	• ок	⊖ NG			F RUNT	
W2	16.0 <u>+</u> 0.5		16.07	16.03	16.07	16.03	16.03	• ок	⊖ NG				
т	5.3mm Max		4.88	4.93	4.91	4.91 4.93		• ОК	⊖ NG				
IDD	3.0mA N	lax	1.50	1.50	1.50	1.50	1.50	• ОК	⊖ NG		— L2 — 	-	
Designed			ELIN			Checked		/		Approved		Wallace	
	J			-						F.F			

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