



DATA IMAGE CORPORATION

LCD Module Specification

ITEM NO.: CM16022ASFAYBG07

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	D	2010/5/18		26



2. RECORD OF REVISION

Rev	Date	Item	Page	Comment
А	27/JUN/07'			New Release.
В	21/MAR/08'	15	25	Modify: OUTLINE DRAWING
С	/8/JUL/08'	15	25	Modify: OUTLINE DRAWING
D	18/MAY/10'	6	6	Modify: ELECTRO-OPTICAL CHARACTERISTIC



Display Format :	16characters (W) \times 2lines (H)	
Character Size :	2.95 (W) × 5.55 (H) m	nm
View Area :	62.2 (W) × 17.9 (H) ^m	nm
General Dimensions :	80 (W) \times 36 (H) \times 14.5 (T) m	וm Max.
Weight :	33 g max.	
LCD Type & Background Color:	STN Blue Gray	
Polarizer mode :	Reflective V Transflective	
	Transmissive Negative	
View Angle :	V 6 O'clock 12 O'clock Others	
Backlight :	VLED EL CCFL	
Backlight Color :	V Yellow green Amber Blue Gree	n
	White Others	
Controller / Driver :	ST7066U-0T	
Temperature Range :	Normal V Wide Temperature Operating 0 to 50°C Operating -20 to Storage -20 to 70°C Storage -30 to	70°C
Pixel Color: Blue		

REMARK:

Our components and processes are compliant to RoHS standard.



4. ABSOLUTE MAXIMUM RATINGS

4.1 ELECTRICAL ABSOLUTE MAXIMUM RATINGS

			Vss=0V,	$Ta = 25^{\circ}C$
Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	Vdd-Vss	-0.3	7	V
Supply Voltage (LCD Driver)	Vdd-Vo	-0.3	11	V
Input Voltage	Vi	-0.3	VDD+0.3	V
Operating Temperature	Тор	-20	70	°C
Storage Temperature	Tstg	-30	80	°C

4.2 ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS

ltem	Operating		Sto	rage	Comment
nem	(Min.)	Max.)	(Min.)	(Max.)	Comment
Ambient Temp	-20	70	-30	80	Note (1)
Humidity	Note (2)		Note(2)		Without Condensation
Vibration		4.9M/S ²		19.6M/S ²	XYZ Direction
Shock		29.4M/S ²		490M/S ²	XYZ Direction

Note(1) Ta = $0^{\circ}C$: 50Hr Max.

Note(2) Ta $\leq 40^{\circ}$ C : 90% RH Max.

Ta $\geq 40^{\circ}$ C : Absolute humidity must be lower than the humidity of 90% RH at 40°C.



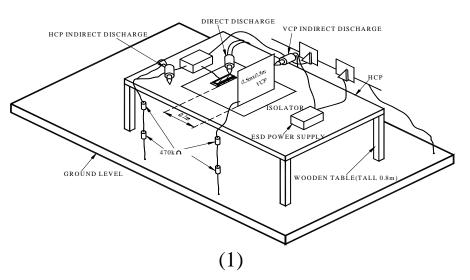


4. 3 Electronic Static Discharge maximum rating

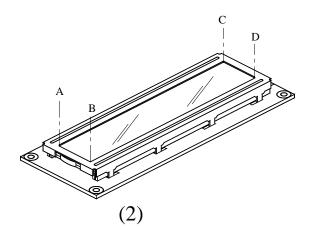
ESD test method : IEC61000-4-2

Item	Description			
Testing environment	Ambient tempe	erature :15°C to 35 °C		
	Humidity: 30%	o to 60 %		
	LCM (E.U.T)	: Power up		
Testing equipment	Manufacture: N	Noise Ken, Model No. ESD-100L		
Testing condition	See drawing 1			
Direct discharge	0 to ± 6 KV	Discharge point, see drawing 2		
Indirect discharge	0 to ± 12 KV	Discharge point, see drawing 1		
Pass condition	No malfunction of unit. Temporary malfunction of unit which			
	can be recovered by system reset			
Fail condition	Non. Recovera	ble malfunction of LCM or system		

FIG 1 ESD TESTING EQUIPMENT



DIRECT CONTACT DISCHARGE CONTACT POINT : A.B.C.D





Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Supply Voltage (Logic)	VDD-VSS		2.7	5.0	5.5	V
		-20°C	3.9	4.3	4.7	
Supply Voltage (LCD)	Vdd-Vo	25°C	3.8	4.0	4.2	V
(200)		70°C	3.4	3.8	3.9	
Input Voltage	Vін	VDD-VSS	0.7*Vdd		Vdd	V
Input voltage	VIL	=4.5~5.5V	-0.3		0.6	v
Logic Supply Current	Idd	Vdd-Vss =5V		2.0		mA

6. ELECTRO-OPTI CAL CHARACTERI STI CS

ITEM	Symbol	Condition	Min.	Тур.	Max.	Unit	Ref.
	т.	-20°C			10000	100.0	
Rise Time	Tr	25°C		100	250	ms	Note (1)
Fall Time	Tf	-20°C			10000	ms	
	11	25°C		170	250	1115	
Contrast	CR	25°C		8			Note (3)
View Angle	θ1~θ2	25°C &		-50~55		deg	Note (2)
		CR≥3	-44~44			uey	
Frame Frequency	Ff	25°C		64		Hz	

Note (1) & (2) : See next page

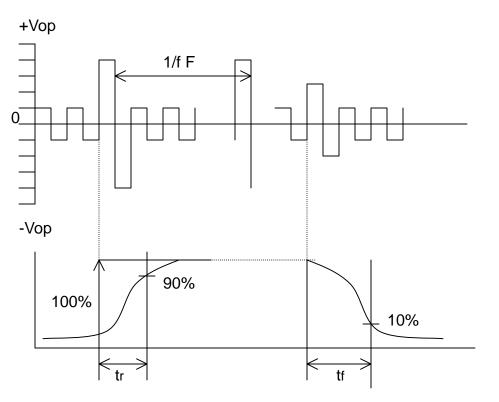
Note (3) : Contrast ration is defined under the following condition:

CR= <u>Brightness of non-selected condition</u> Brightness of selected condition

- (a). Temperature ----- 25°C
- (b). Frame frequency ---- 64Hz
- (c). Viewing angle ----- $\theta{=}~0^{\circ}, \quad \varnothing{=}~0^{\circ}$
- (d). Operating voltage --- 4.0V



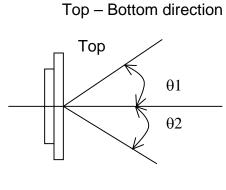
Note (1) Response time is measured as the shortest period of time possible between the change in state of an LCD segment as demonstrated below:



Condition:

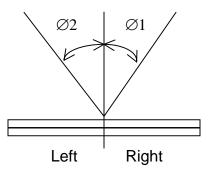
- (a). Temperature -----25°C
- (b). Frame frequency ----- 64Hz
- (c) . View Angle ----- $\theta = 0^{\circ}, \emptyset = 0^{\circ}$
- (d). Operating voltage ------ 4.0V







Right -- Left direction





6.1 LED ELECTRO-OPTICAL CHARACTERISTIC

 $Ta = 25^{\circ}C$

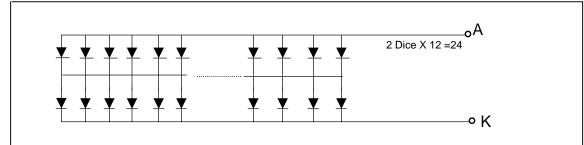
						1u - 25 O
Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage	VF	IF =120mA Yellow Green		4.1	4.2	V
Luminous Intensity	Iv	IF = 120mA Yellow Green	55	90		cd/m ²
Peak Emission	λP	IF = 120mA Yellow Green		573		nm
Spectrum Radiation	Δλ	IF = 120mA Yellow Green		30		nm
Reverse Current	IR	VR = 8V Yellow Green			0.2	mA

Note : Measured at the bared LED backlight unit.

6.2 LED MAXIMUM OPERATING RANGE

Item	Symbol	Yellow Green	Unit
Power Dissipation	Pad	0.76	W
Forward Current	laf	180	mA
Reverse Voltage	VR	8	V

6.2.1 LED ARRAY BLOCK DIAGRAM



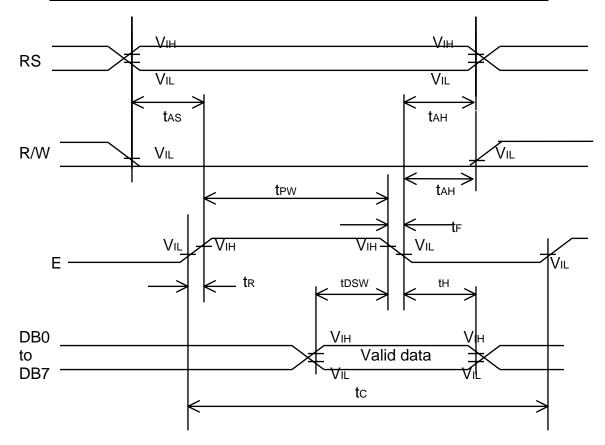
6.2.2 LED POWER SOURCE

	Power source	Jumper setting	Mark
	VDD/VSS	J1,J3,R9	
LED	15K/16A	J2,J5,J7	V
	A/K	NONE	
	15A/16K	J2,J4,J6	
GND	BZL GND	J8	V
	FRM GND	19	



7.1 WRITE TIMING

		AC chara	cteristics	(VDD=5V	,Ta=25°C)
ltem	Symbol	Condition	Min.	Max.	Unit
E cycle time	tc		1200		
E pulse width	tPW		140		
E rise/fall time	tR, tF			25	
RS and RW, E Address Setup time	tAS	VDD = 5V	0		ns
RW and RS ,E Address Hold time	tAH		10		
Data setup time	tDSW		40		
Data hold time	tH		10		
		AC characte	ristics (VE	DD=2.7V,	Ta=25°C)
ltem	Symbol	Condition	Min.	Max.	Unit
E cycle time	tc		1200		
E pulse width	tPW		460		
E rise/fall time	tR, tF			25	
RS and RW, E Address Setup time	tAS	VDD = 2.7V	0		ns
RW and RS ,E Address Hold time	tAH		10		
Data setup time	tDSW		80		
Data hold time	tH		10		





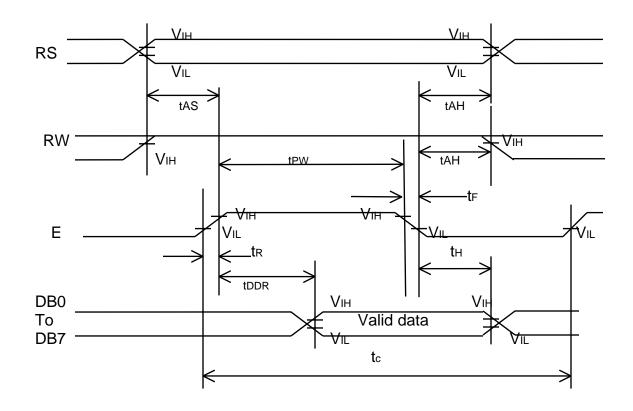
7.2 READ TIMING

		AC charac	ciensiics (vDD=5v,	Ta=25°C)
Item	Symbol	Condition	Min.	Max.	Unit
E cycle time	tc		1200		
E pulse width	tPW		140		
E rise/fall time	tR, tF			25	
RS and RW, E Address Setup time	tAS	VDD = 5V	0		nc
RS and RW ,E Address Hold time	tAH		10		ns
Data Setup time	tDDR]		100	
Data hold time	tH		10		

AC characteristics (VDD=5V,Ta=25°C)

AC characteristics (VDD=2.7V,Ta=25°C)

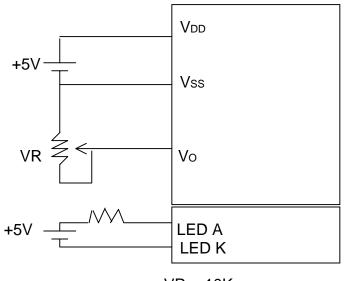
Item	Symbol	Condition	Min.	Max.	Unit
E cycle time	tc		1200		
E pulse width (high level)	tPW		480		
E rise/fall time	tR, tF			25	
RW and RS ,E Address setup time	tAS	VDD = 2.7V	0		ns
RW and RS ,E Address Hold time	tAH		10		
Data output delay time	tDDR			320	
Data hold time	tH		10		





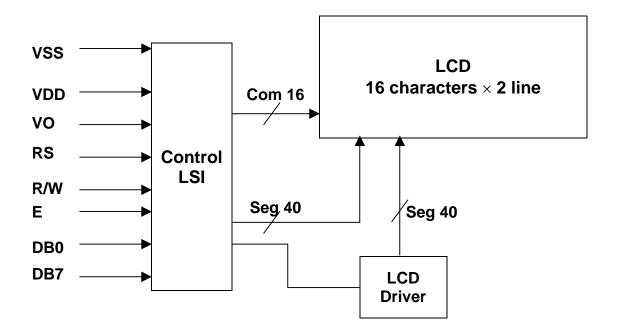
No.	Symbol	Function
1	VSS	Ground, 0V
2	VDD	Logic power supply, +5V
3	VO	Voltage for LCD drive
4	RS	Data / Instruction register select
5	R/W	Read / Write
6	E	Enable signal, start data read/write
7	DB0	
8	DB1	
9	DB2	
10	DB3	Data Bus Line
11	DB4	
12	DB5	
13	DB6	
14	DB7	
15	LED K	LED Cathode, ground 0V
16	LED A	LED Anode, power supply +

9. POWER SUPPLY





10. BLOCK DIAGRAM





10.1 INSTRUCTIONS

Instruction	Inst	ruct	ion (Code	Э							Executed
Instruction	RS	R/W	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0	DESCRIPTION	Time(fosc =270KHz)
Clear Display	0	0	0	0	0	0	0	0	0	1	Write "20H" to DDRAM and set DDRAM address to "00H " from AC	1.52mS
Cursor At Home	0	0	0	0	0	0	0	0	1	-	Set DDRAM address to "00H" from AC and return cursor to its original Position if shifted. The contents of DDRAM are not changed.	1.52mS
Entry Mode Set	0	0	0	0	0	0	0	1	I/D	SH	Assign cursor moving direction and enable the shift of entire display.	37µS
Display On/Off Control	0	0	0	0	0	0	1	D	с	в	Set display (D), cursor(C), and Blinking of cursor(B) ON/OFF control bit.	37µS
Cursor or Display Shift	0	0	0	0	0	1	S/C	R/L	-	-	Set cursor moving and display shifts cursor bit, and the direction, without changing of DDRAM data.	37µS
Function Set	0	0	0	0	1	DL	N	F	-	-	Sets interface data length (DL:8-BIT/4-BIT), number of display lines(N:2-line/1-line) and, display font type (F:5x11dots/5x8 dots).	37µS
Set CGRAM Address	0	0	0	1	AC5	AC4	AC3	AC2	AC1	AC0	Set CGRAM address in address counter.	37µS
Set DDRAM Address	0	0	1	AC6	AC5	AC4	AC3	AC2	AC1	AC0	Set DDRAM address in address counter.	37µS
Read Busy Flag and Address	0	1	BF	AC6	AC5	AC4	AC3	AC2	AC1	AC0	Whether during internal operation or not can be known by reading BF. The contents of address counter can also be read.	0μS
Write Data to RAM	1	0	D7	D6	D5	D4	D3	D2	D1	D0	Write data into internal RAM (DDRAM / CGRAM)	37µS
Read Data from RAM	1	1	D7	D6	D5	D4	D3	D2	D1	D0	Reads data from internal RAM (DDRAM / CGRAM).	37µS

Note:

Be sure the ST7066U is not in the busy state (BF=0) before sending an instruction from the MPU to the ST7066U. If an instruction is sent without checking the busy flag, the time between the first instruction and next instruction will take much longer than the instruction time itself. Refer to Instruction Table for the list of each instruction execution time.



10.2 8-Bit Operation, 8-Digit×2-Line Display Example

Step					Instru	uction	l					
No	RS	R/W	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0	Display	Operation
1			pply o reset c	-		s initia	alized	by th	e			Initialized. No display.
2	Fun 0	ction 0	set 0	0	1	1	1	0	*	*		Sets to 8-bit operation and selects 2-line display and 5×8 dot character font.
3	Disj 0	play o 0	n/off o 0	contro 0	ol O	0	1	1	1	0		Turns on display and cursor. All display is in space mode
4	-	-	ode set 0	-	0	0	0	1	1	0		because of initialization. Sets mode to increment the address by one and to shift the cursor to the right at the time of write to the DD/CGRAM.
5	Wri 1	ite dat 0	ta to C 0	CGRA 1	M/DI 0	DRAN 0	/I 1	0	0	0	H_	Display is not shifted. Writes H. DDRAM has already been selected by initialization when the power was turned on. The cursor is incremented by one and shifted to the right
6												
7	Wri	ite dat	ta to C	CGRA	M/DI	DRAN	/[HITACHI_	Writes I.
	1	0	0	1	0	0	1	0	0	1		
8	Set	DDRA 0	AM ad 1	ldress 1	; 0	0	0	0	0	0	HITACHI	Sets DDRAM address so that The cursor is positioned at the Head of the second line.
9	Wri 1	ite dat 0	ta to C 0	CGRA 1	M/DI 0	DRAN 0	/I 1	1	0	1	HITACHI M_	Writes M.
10												
11	Wri 1	ite dat 0	ta to C 0	CGRA 1	M/DI 0	DRAN 0	Л 1	1	1	1	HITACHI MICROCO_	Writes O.
12	Ent 0	-	ode set		0	0	0	1	1	1	HITACHI MICROCO_	Sets mode to shift display at the time of write.
13	Wri 1	ite dat 0	ta to C 0	CGRA 1	M/DI 0	DRAN 0	/I 1	1	0	1	ITACHI ICROCOM_	Writes M. Display is shifted to the left. The first and second lines both shift at the same time.
14											- - - -	
15	Ret 0	urn h 0	ome 0	0	0	0	0	0	1	0	HITACHI MICROCOM	Returns both display and cursor to the original position (address 0).

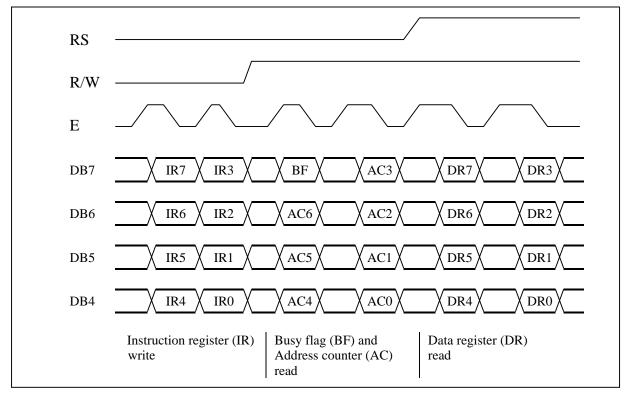


10.3 Interfacing to the MPU

The IC can send data in either two 4-bit operations, thus allowing interfacing with 4-or 8-bit MPU.

• For 4-bit interface data, only four bus lines (DB4 to DB7) are used for transfer. Bus lines DB0 to DB3 are disabled. The data transfer between the IC and the MPU is completed after the 4-bit data has been transferred twice. As for the order of data transfer, the four high order bits (for 8-bit operation,DB4 to DB7) are transferred before the four low order bits (for 8-bit operation, DB0 to DB3).

The busy flag must be checked (one instruction) after the 4-bit data has been transferred twice. Two more 4-bit operations then transfer the busy flag and address counter data.



4-Bit Transfer Example



Display position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DDRAM	00	01	02	03	04	05	06	07	40	41	42	43	44	45	46	47
Address (hexadecimal)	•						- 1	6×1-	-Lir	ie –						•

1-Line Display

2-Line Display

Display position	1	2	3	4	5	···8···16···20···24···	39	40				
DDRAM	00	01	02	03	04		26	27				
Address (hexadecimal)	40	41	42	43	44		66	67				
$ \underbrace{ 8 \times 2 - \text{Line}}_{16 \times 2 - \text{Line}} \\ \underbrace{ 20 \times 2 - \text{Line}}_{24 \times 2 - \text{Line}} \\ \underbrace{ 24 \times 2 - \text{Line}}_{24 \times 2 - \text{Line}} $												

4-Line Display

Display position	1	2	3		15	16
DDRAM	00	01	02		0E	0F
Address (hexadecimal)	40	41	42		4 E	4 F
	14	15	16		1 E	1F
	54	55	56		5 E	5F
	—	1	1	16×4 Line		

00	2 01	3	·····	19	20
	UI.	02		12	13
40	41	42		52	53
14	15	16		26	27
54	55	56		66	67
	14	14 15	14 15 16	14 15 16	14 15 16 26 54 55 56 66



Relationship between CGRAM Addresses, Character Codes (DDRAM) and Patterns (CGRAM Data)

Character Codes (DDRAM data)	CGRAM Address	Character Patterns (CGRAM data)
7 6 5 4 3 2 1 0	5 4 3 2 1 0	7 6 5 4 3 2 1 0
High Low	High Low	High Low
0000*000	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c} * * * \\ \bullet \\$
0000*001	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0 0 0 0 0 0 1	
0000*111	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	* * *

For 5×8 dot character patterns

- Notes: 1. Character code bits 0 to 2 correspond to CGRAM address bits 3 to 5 (3 bits: 8 types).
 - 2. CGRAM address bits 0 to 2 designate the character pattern line position. The 8th line is the cursor position and its display is formed by a logical OR with the cursor. Maintain the 8th line data, corresponding to the cursor display position, at 0 as the cursor display.
 - If the 8th line data is 1, 1 bits will light up the 8th line regardless of the cursor presence. 3. Character pattern row positions correspond to CGRAM data bits 0 to 4 (bit 4 being
 - at the left).
 - 4. As shown Table 5, CGRAM character patterns are selected when character code bits 4 to 7 are all 0. However, since character code bit 3 has no effect, the R display example above can be selected by either character code 00H or 08H.
 - 5. 1 for CGRAM data corresponds to display selection and 0 to non-selection.
 - * Indicates no effect.



10.6 Correspondence between Character Codes and Character Patterns.

NØ.7066-0T

67-64 63-60	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111
0000	CG RAM (1)															
0001	(2)															
0010	(3)															
0011	(4)															
0100	(5)															
0101	(6)															
0110	Ø															
0111	(8)															
1000	(1)															
1001	(2)															
1010	(3)															
1011	(4)															
1100	(5)															
1101	(6)															
1110	Ø															
1111	(8)															



11.1 Test Condition

- 11.1.1 Temperature and Humidity(Ambient Temperature) Temperature : $20 \pm 5^{\circ}C$
 - 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.

1	1.1	.5	Test	Method	ł

No.	Parameter	Conditions	Regulations
1	High Temperature Operating	70 ± 2 °C	Note 3
2	Low Temperature Operating	-20 ± 2 °C	Note 3
3	High Temperature Storage	80 ± 2 °C	Note 3
4	Low Temperature Storage	-30 ± 2 °C	Note 3
5	Vibration Test (Non-operation state)	Total fixed amplitude : 1.5mm Vibration Frequency : 10 ~ 55Hz One cycle 60 seconds to 3 directions of X.Y.Z. for each 15 minutes	Note 3
6	Damp Proof Test (Non-operation state)	40°C ± 2°C, 90~95%RH, 96h	Note 1,2
7	Shock Test (Non-operation state)	To be measured after dropping from 60cm high once concrete surface in packing state	Note 3

Note 1: Returned under normal temperature and humidity for 4 hrs.

Note 2: No dew condensation to be observed.

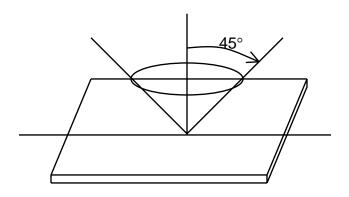
Note 3: No change on display and in operation under the test condition



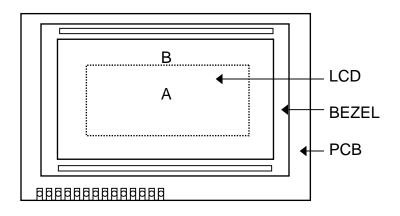
11.2 Inspection condition

11.2.1 Inspection conditions

The LCD shall be inspected under 40W white fluorescent light.



11.2.2 Definition of applicable Zones



A : Display Area

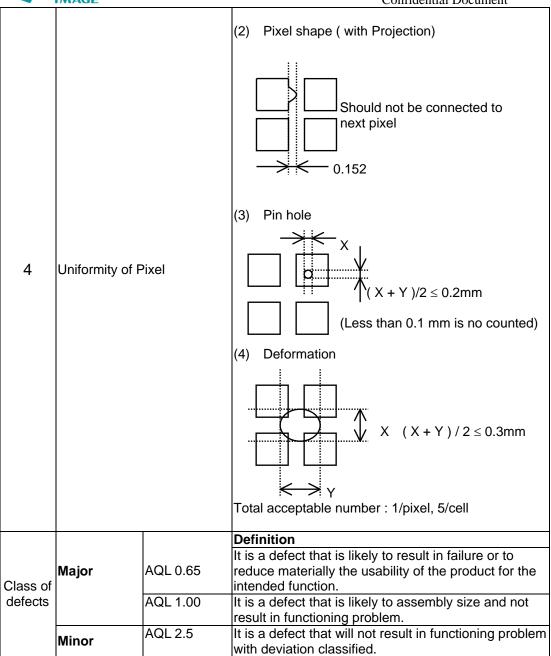
B : Non-Display Area



11.2.3 Inspection Parameters

No.	Parameter	Criteria		
1	Black or White spots	$\begin{array}{ c c c c c }\hline & Zone & Acceptable & Class & AQL \\ \hline Dimension & A & B & Defects \\ \hline D < 0.15 & * & * & \\ 0.15 \leq D < 0.2 & 4 & 4 & \\ 0.2 \leq D \leq 0.25 & 2 & 2 & \\ \hline D \leq 0.3 & 0 & 1 & \\ \hline \end{array} \begin{array}{ c c c }\hline & Acceptable & Class & AQL \\ \hline Defects & Defects & \\ \hline & Minor & 2.5 & \\ \hline & 2.5 & \\ \hline & D = (Long + Short) / 2 & * : Disregard \\ \hline \end{array}$		
2	Scratch, Substances	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		
3	Air Bubbles (between glass & polarizer)	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		
4	Uniformity of Pixel	(1) Pixel shape (with Dent) 0.152		



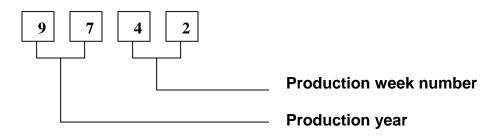


11.3 Sampling Condition

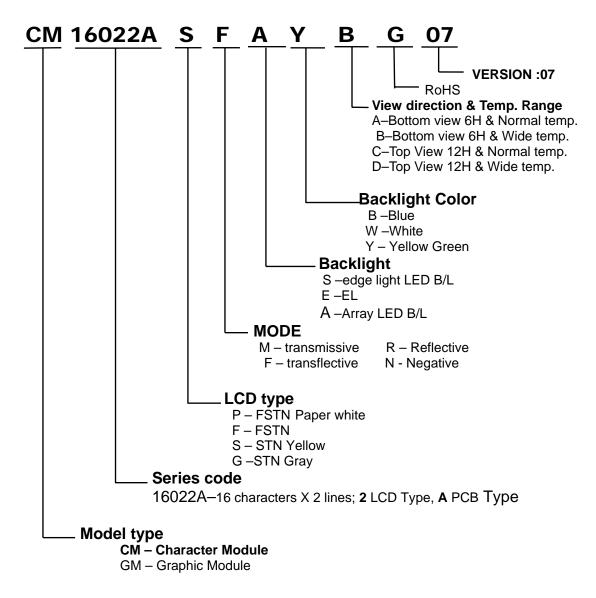
Unless otherwise agree in written, the sampling inspection shall be applied to the incoming inspection of customer. Lot size: Quantity of shipment lot per model. Sampling type: normal inspection, single sampling Sampling table: MIL-STD-105E Inspection level: Level II

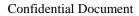


12. LOT NUMBERING SYSTEM



13. LCM NUMBERING SYSTEM







14. 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 degredation, 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.

(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 : $280^{\circ}C \pm 10^{\circ}C$

(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

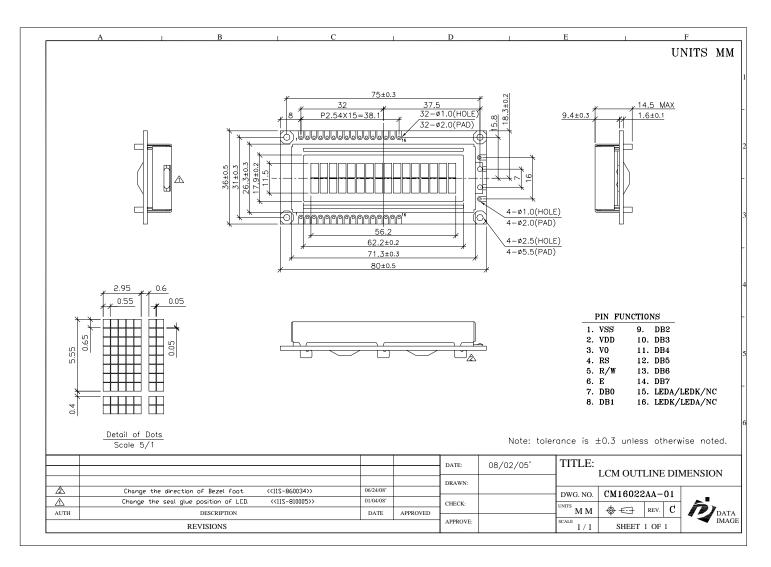
If any fluid leaks out of a damaged glass cell, wash off any human part that comes into contact with soap and water. Never swallow the fluid. The toxicity is extremely low but caution should be exercised at all the time.

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.



Confidential Document 15. OUTLINE DRAWING





16. PACKAGE INFORMATION

