MINED BY :		FILE NO . CAS-0006829
Vincent Uh	EMERGING DISPLAY	ISSUE : AUG.21, 2009
ROVED BY:	TECHNOLOGIES CORPORATION	TOTAL PAGE: 22
David Chang		VERSION : 3
CUSTOMER	ACCEPTANCE SPEC	CIFICATIONS
	DEL NO.: <u>ETQ570G0DM6</u> (RoHS) MESSRS:	
DATE :		
BY :		

E M E R G	ING DI	ISPLAY	MODEL NO.	VERSION	N PAGE
	OGIES CORF		E T Q 5 7 0 G 0 D M 6	3	0-1
			DOC . FIRST ISSUE	-	
RECORD		EVISION		Ν	/AR.04, 2009
D A T E	REVISED PAGE NO.		S U M M A R Y		
APR.08, 2009	7		DIFY CN1 TYPE		
AUG.21, 2009	3	POWER SUPPI	CHARACTERISTICS Y CURRENT FOR VCOM DRIVER :		
	7	7. OUTLINE DIM	450, MAX.=(720) → 580 ENSIONS DD PULL TAPE & NOTE.		

MERC	GING DISPLAY	MODEL NO.	VERSION	PAC
TECHNO	LOGIES CORPORATION	E T Q 5 7 0 G 0 D M 6	3	0-2
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	TABLE	<u>of contents</u>		
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	GING DISPLAY	MODEL NO.	VERSION	PAGE
	OLOGIES CORPORATION	E T Q 5 7 0 G 0 D M 6	3	1
1. G	ENERAL SPECIFICATIONS			
1.1	APPLICATION NOTES FOR PLEASE REFER TO :	CONTROLLER/DRIVER		
		X H X 8 2 1 8 X H X 8 6 1 5		
1.2	INCLUDING PROHIBITED M	LY WITH EUROPEAN ROHS R ATERIALS/COMPONENTS CC AVALENT CHROMIUM, POLY YBROMINATED	NTAINING	LEAD
2. N	IECHANICAL SPECIFICATION	νS		
	1) DIAGONALS			
(2) NUMBER OF DOTS	320W * (RGB) * 240	H DOTS	
(3) MODULE SIZE	124.7W * 100H * 10	.5D mm	
		(WITHOUT FPC)		
(4) EFFECTIVE AREA	117.2W * 88.4H mm	1	
(5) ACTIVE AREA	115.2W * 86.4H mm	1	
(6) DOT SIZE	0.12W * 0.36H mm		
(7) PIXEL SIZE	0.36W * 0.36H mm		
(8) LCD TYPE	TFT , TRANSMISSI	VE	
(9) COLOR	262K		
(1	0) VIEWING DIRECTION	6 O'CLOCK		
	1) BACK LIGHT	LED , COLOR : WH	ITE	
(1				

MODEL NO. E T Q 5 7 0 G 0 D M 6

3. ABSOLUTE MAXIMUM RATINGS

3.1 ELECTRICAL ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	MIN.	MAX.	UNIT	REMARK
POWER SUPPLY VOLTAGE	VDD-VSS	-0.3	7.0	V	
TOWER SOTTET VOLTAGE	VCC-VSS	-0.3	7.0	V	
INPUT SIGNAL VOLTAGE	VL-VSS	-0.3	VCC+0.3	V	
STATIC ELECTRICITY				V	NOTE (1)
LED BACKLIGHT POWER DISSIPATION	PD		1.28	W	
LED BACKLIGHT FORWARD CURRENT	IF		0.06	А	
LED BACKLIGHT REVERSE VOLTAGE	VR		45	V	

NOTE (1) : LCM SHOULD BE GROUNDED DURING HANDING LCM.

3.2 ENVIRONMENTAL ABSOLUTE MAXIMUM RATINGS.

ITEM	OPERATING		STORAGE		REMARK	
	MIN.	MAX.	MIN.	MAX.	KEWAKK	
AMBIENT TEMPERATURE	-20°C	70°C	-30°C	80°C	NOTE (1), (2)	
HUMIDITY	NOTE (3)		NOTE (3)		WITHOUT CONDENSATION	
VIBRATION		2.45 m/s ² (0.25 G)		11.76 m/s ² (1.2 G)	5~20Hz, 1HR 20~500Hz(20Hz), 1HR 20~500Hz(500Hz), 1HR X, Y, Z, TOTAL 3HRS	
SHOCK		29.4 m/s ² (3 G)		490 m/s ² (50G)	10 m SECONDS XYZ DIRECTIONS 1 TIME EACH	
CORROSIVE GAS	NOT ACC	EPTABLE	NOT ACC	EPTABLE		

NOTE (1) : Ta AT -30°C : 48HRS MAX.

80°C:168HRS MAX.

NOTE (2) : BACKGROUND COLOR CHANGES SLIGHTLY DEPENDING ON AMBIENT TEMPERATURE THIS PHENOMENON IS REVERSIBLE .

NOTE (3) : $Ta \le 60^{\circ}C$: 90%RH MAX (96HRS MAX).

Ta > 60°C : ABSOLUTE HUMIDITY MUST BE LOWER THAN THE HUMIDITY OF 90%RH AT 60°C(96HRS MAX).

MODEL NO. E T Q 5 7 0 G 0 D M 6

4. ELECTRICAL CHARACTERISTICS

							Ta = 25 °C
PARAMETER	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	REMARK
POWER SUPPLY VOLTAGE FOR DIGITAL	VDD-VSS		3	3.3	3.6	V	
POWER SUPPLY VOLTAGE FOR VCOM DRIVER	VCC-VSS		3	3.3	3.6	V	
POWER SUPPLY CURRENT FOR DIGITAL	IDD	VDD-VSS =3.3V		8	11	mA	NOTE (1)
POWER SUPPLY CURRENT FOR VCOM DRIVER	ICC	VCC-VSS = 3.3V LED B/L=ON		450	580	mA	
LOW LEVEL INPUT VOLTAGE	VIL		0		0.3*VDD	V	NOTE (2)
HIGH LEVEL INPUT VOLTAGE	VIH	_	0.7*VDD		VDD	V	NOTE (2)
LOW LEVEL OUTPUT VOLTAGE	VOL	$IOL = 400 \mu A$	0		0.2*VDD	V	NOTE (3)
HIGH LEVEL OUTPUT VOLTAGE	VOH	$IOH = -400 \mu A$	0.8*VDD		VDD	V	NOTE (5)
FRAME FREQUENCY	fFRAME			83	92	Hz	
DOT DATA CLOCK	DCLK			6.4	7.1	MHz	
POWER SUPPLY FOR LED BACKLIGHT	V _F	I _F =40mA	28	30	32	V	NOTE (4)
LED LIFE TIME			30000	40000		HRS	

NOTE (1): THE DISPLAY PATTERN IS ALL "WHITE".

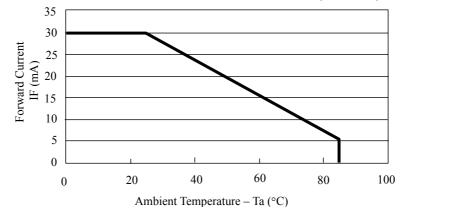
NOTE (2): APPLIED TO TERMINALS /RESET, HSYNC, VSYNC, ENB, DCLK, B5~B0, G5~G0, R5~R0. NOTE (3): APPLIED TO TERMINALS B5~B0, G5~G0, R5~R0.

NOTE (4): INTERNAL CIRCUIT DIAGRAM OF BACKLIGHT

(VF=VBL+(A)-VBL1-(K1)=VBL+(A)-VBL2-(K2))



NOTE (5): AMBIENT TEMP. VS. ALLOWABLE FORWARD CURRENT.(PER LED)



MODEL NO. VERSION PAGE EMERGING DISPLAY TECHNOLOGIES CORPORATION E T Q 5 7 0 G 0 D M 6 3 4 TIMING CHARACTERISTICS 5. 5.1 DIGITAL PARALLEL RGB INTERFACE SIGNAL ITEM SYMBOL MIN. TYP. MAX UNIT FREQUENCY TCLK 6.4 7.1 MHz ____ DCLK TCH HIGH TIME 78 ____ ____ ns LOW TIME TCL 78 ____ ns SETUP TIME TDS 12 ____ ns ____ DATA HOLD TIME TDH 12 ns TH 408 DCLK PERIOD PULSE WIDTH THP 30 DCLK HSYNC BACK-PORCH THB 38 DCLK ____ ____ DISPLAY PERIOD 320 DCLK THD ____ ____

THF

ΤV

TVP

TVB

TVD

NTSC

NTSC

NTSC

PAL

PAL

20

262.5

312.5

3

15

23 240

4.5

1

5

DCLK

TH

TH

TH

TH

FRONT-PORCH

PULSE WIDTH

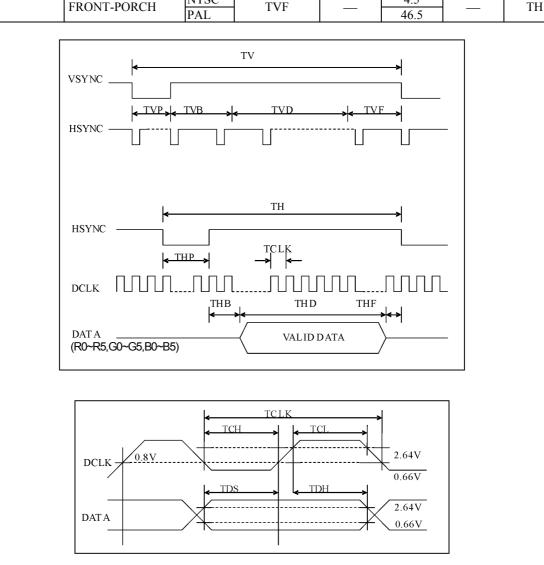
BACK-PORCH

BACK-PORCH

DISPLAY PERIOD

PERIOD

VSYNC



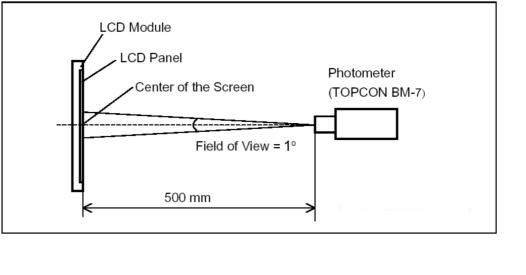
MODEL NO . E T Q 5 7 0 G 0 D M 6

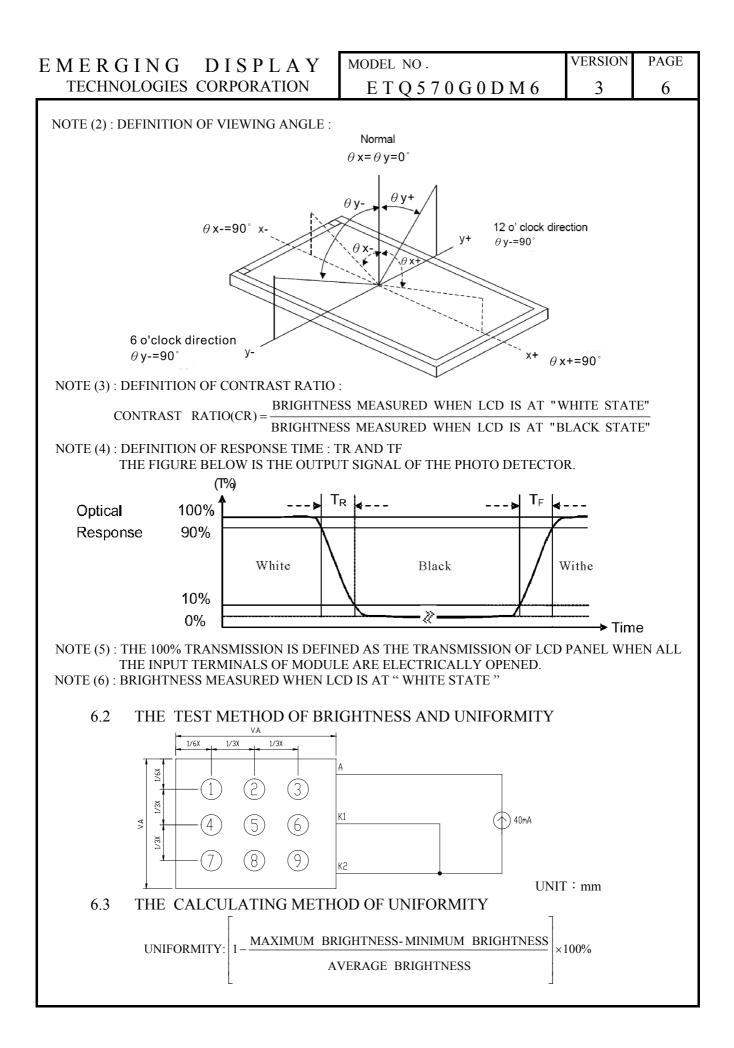
6. OPTICAL CHARACTERISTICS (NOTE 1) 6.1 OPTICAL CHARACTERISTICS

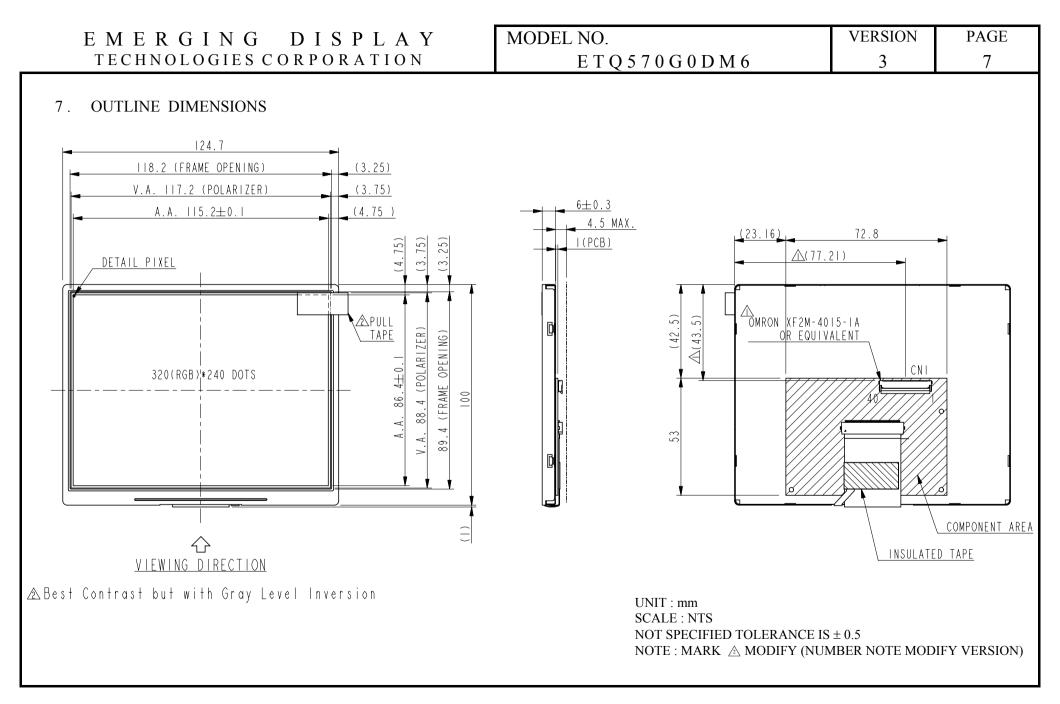
								Та	$= 25 \pm 2 \circ C$								
ΙΤΕΜ		SYMBOL	COND	ITION	MIN.	TYP.	MAX.	UNIT	REMARK								
		θ_{y^+}		0 00	55	60											
VIEWING ANG	Б	θ _{y-}	CD > 10	$\theta_x=0^{\circ}$	70	75		4.0.0	NOTE (2)								
VIEWING ANGLE		θ_{x^+}	$CK \ge 10$	$CK \ge 10$	$CK \ge 10$	$CK \ge 10$	$CK \ge 10$	$CK \ge 10$	$CR \ge 10$	$CK \ge 10$	$CK \ge 10$	0 -0%	70	75		deg.	NOTE (3)
		θ _{x-}		θ _y =0°	70	75											
CONTRAST RAT	ΠO	CR	θx=0°,	θy=0°	300	400			NOTE (3)								
RESPONSE TIM	E	T_R (rise)	009	008		15	30	m 600	NOTE (4)								
KESPOINSE TIM	E	$T_F(fall)$	$\theta x=0^{\circ}, \ \theta y=0^{\circ}$			35	50	msec	NOTE (4)								
	WHITE	Wx			0.27	0.32	0.37										
		Wy			0.30	0.35	0.40		NOTE (5)								
	RED	Rx			0.58	0.63	0.68										
COLOR OF		Ry	$\theta x=0^{\circ}$,		0.31	0.36	0.41										
CIE COORDINATE	GREEN	Gx		I _F =40mA NTSC:60%	0.28	0.33	0.38										
COORDINATE	UKEEN	Gy			0.55	0.60	0.65										
	BLUE	Bx			0.09	0.14	0.19										
	DLUE	By			0.06	0.11	0.16										
THE BRIGHTNESS OF MODULE		В	$\Delta x = 0^{\circ}$	$\Delta v = 0^{\circ}$	450	500		cd/m ²									
THE UNIFORMITY OF MODULE			$\theta x=0^{\circ}, \ \theta y=0^{\circ}$ $I_{F}=40 \text{mA}$		75	80		%	• NOTE (6)								

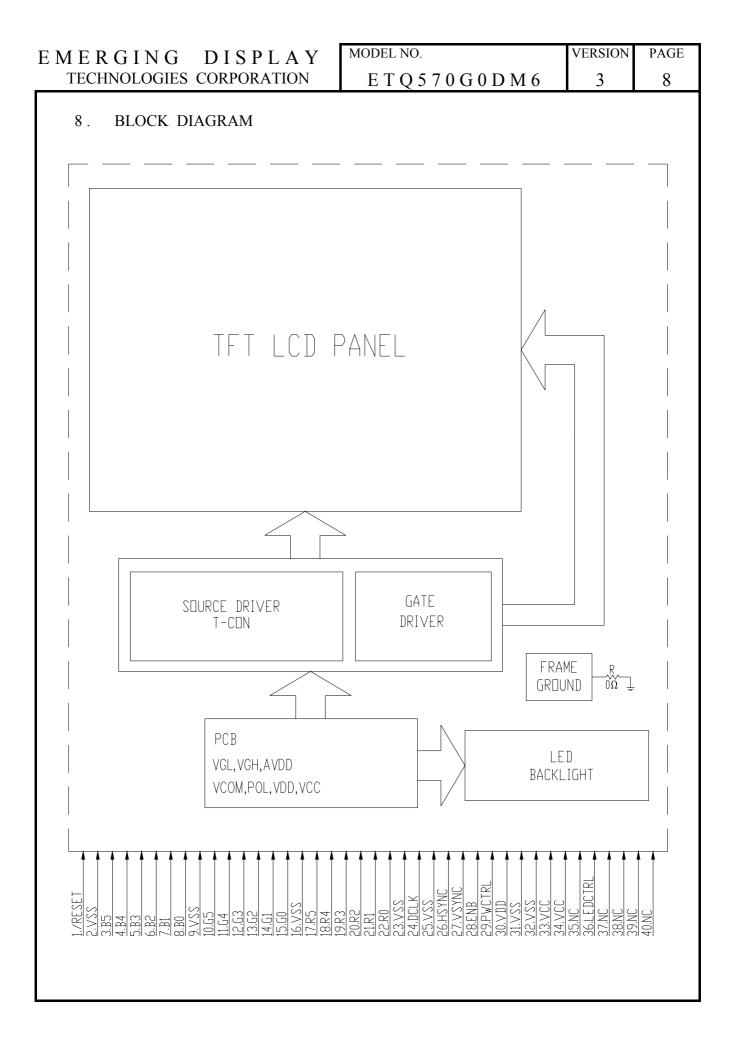
NOTE (1) : TEST EQUIPMENT SETUP :

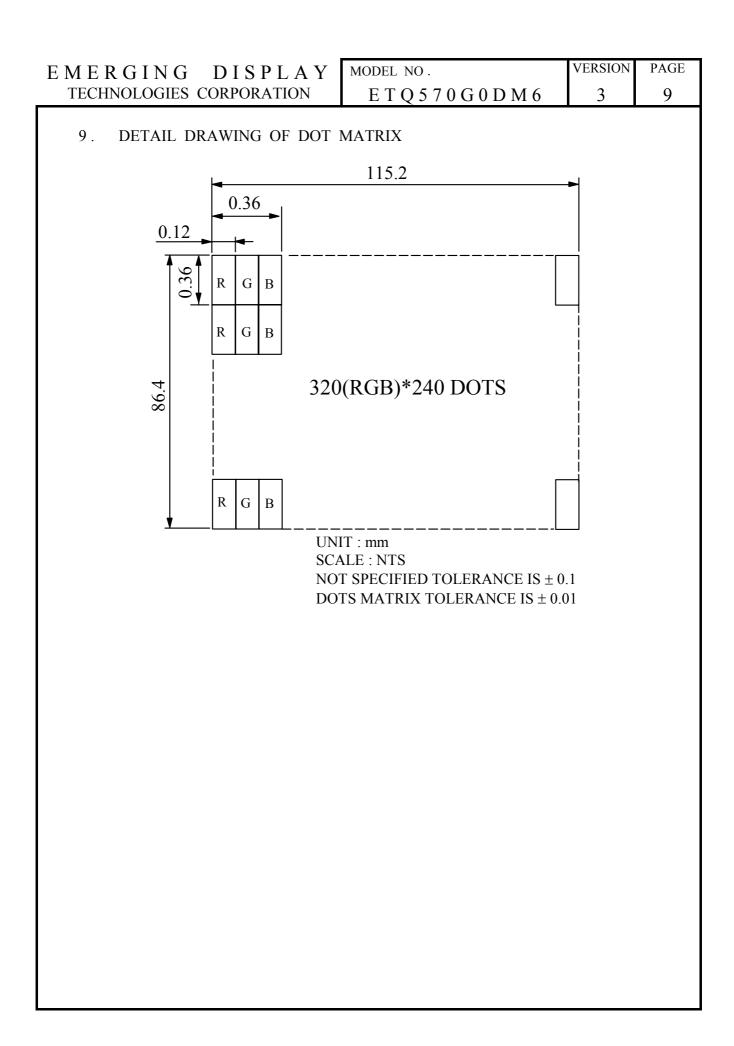
AFTER STABILIZING AND LEAVING THE PANEL ALONE AT A GIVEN TEMPERATURE FOR 30 MINUTES, THE MEASUREMENT SHOULD BE EXECUTED. MEASUREMENT SHOULD BE EXECUTED IN A STABLE, WINDLESS, AND DARK ROOM. OPTICAL SPECIFICATIONS ARE MEASURED BY TOPCON BM-7 (FAST) WITH A VIEWING ANGLE OF 1° AT A DISTANCE OF 50cm AND NORMAL DIRECTION.











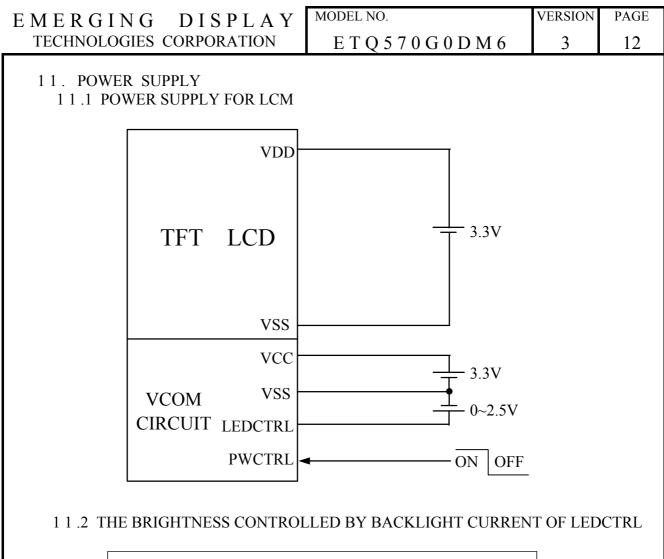
MODEL NO . E T Q 5 7 0 G 0 D M 6

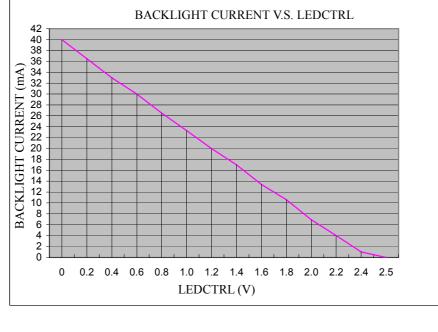
10. INTERFACE SIGNALS

IN NO	SYMBOL	I/O		FUNCTION				
1	/RESET	Ι	HARDWARE RESET					
2	VSS	Р	GROUND (VSS IS CONNECTED TO METAL HOUSING WITH CONDUCTIVE TAPE)					
3	B5	Ι	BLUE DATA BIT 5	LUE DATA BIT 5				
4	B4	Ι	BLUE DATA BIT 4					
5	B3	Ι	BLUE DATA BIT 3					
6	B2	Ι	BLUE DATA BIT 2					
7	B1	Ι	BLUE DATA BIT 1					
8	B0	Ι	BLUE DATA BIT 0					
9	VSS	Р	GROUND (VSS IS CO CONDUCTIVE TAPE		AL HOUSING WITH			
10	G5	Ι	GREEN DATA BIT 5					
11	G4	Ι	GREEN DATA BIT 4					
12	G3	Ι	GREEN DATA BIT 3					
13	G2	Ι	GREEN DATA BIT 2					
14	G1	Ι	GREEN DATA BIT 1					
15	G0	Ι	GREEN DATA BIT 0	GREEN DATA BIT 0				
16	VSS	Р	GROUND (VSS IS CO CONDUCTIVE TAPE		AL HOUSING WITH			
17	R5	Ι	RED DATA BIT 5					
18	R4	Ι	RED DATA BIT 4					
19	R3	Ι	RED DATA BIT 3					
20	R2	Ι	RED DATA BIT 2					
21	R1	Ι	RED DATA BIT 1					
22	R0	Ι	RED DATA BIT 0					
23	VSS	Р	GROUND (VSS IS CO CONDUCTIVE TAPE		AL HOUSING WITH			
24	DCLK	Ι	DOT DATA CLOCK					
25	VSS	Р	GROUND (VSS IS CO CONDUCTIVE TAPE		AL HOUSING WITH			
26	HSYNC	Ι	HORIZONTAL SYNC	C INPUT				
27	VSYNC	Ι	VERTICAL SYNC IN	PUT				
28	ENB	Ι	DATA ENABLE INP					
			LOGIC	PWCTRL	REMARK			
		_	LEVEL H=3.3V	Н	POWER ON			
29	PWCTRL	Ι	L=0V	L	SHUTDOWN			
				ED DRIVER : JP15 1- LED DRIVER : JP15 2	· · · · · · · · · · · · · · · · · · ·			

MODEL NO.
E T Q 5 7 0 G 0 D M 6

PIN NO	SYMBOL	I/O	FUNCTION
30	VDD	P	POWER SUPPLY FOR DIGITAL CIRCUIT
50	VDD	P	GROUND (VSS IS CONNECTED TO METAL HOUSING WITH
31	VSS	r	CONDUCTIVE TAPE)
22	VCC	Р	GROUND (VSS IS CONNECTED TO METAL HOUSING WITH
32	VSS		CONDUCTIVE TAPE)
33	VCC	Р	POWER SUPPLY FOR VCOM DRIVER CIRCUIT
34	VCC	Р	POWER SUPPLY FOR VCOM DRIVER CIRCUIT
			NON CONNECTION (USING INTERNAL LED DRIVER) OR ANODE
35	NC		(USING EXTERNAL LED DRIVER)
55	ne		WHEN INTERNAL LED DRIVER : JP5 1-2 (DEFAULT)
			WHEN EXTERNAL LED DRIVER : JP5 2-3
			BRIGHTNESS CONTROL FOR LED BACKLIGHT ;
			LEDCTRL (USING INTERNAL LED DRIVER) OR CATHODE (USING
			EXTERNAL LED DRIVER)
36	LEDCTRL	Ι	WHEN INTERNAL LED DRIVER : JP6 1-2 (DEFAULT)
			JP14 1-2 (DEFAULT)
			WHEN EXTERNAL LED DRIVER : JP6 2-3
			JP14 NON CONNECTION
37	NC		NON CONNECTION
38	NC		NON CONNECTION
39	NC		NON CONNECTION
40	NC	—	NON CONNECTION





EMERGING DISPLAY	MODEL NO.	VE	RSION	PAGE
TECHNOLOGIES CORPORATION	E T Q 5 7 0 G 0	D M 6	3	13
12. INSPECTION CRITERION 12.1 APPLICATION				
THIS INSPECTION STANDARD IS DELIVERED FROM EMERGING I CUSTOMERS				ТО
12.2 INSPECTION CONDITIONS				
OPERATION CONDIT (PERPENDICULAR T Non-operation Condition	ONDITION : ±5° O LCD PANEL SURFA TION : ±45° O LCD PANEL SURFA	ACE)		
12.2.2 ENVIRONMENT CONDI		2 000 1	500	
AMBIENT TEMPI		20°C~2		
AMBIENT HUN		65±20%		
	ETIC INSPECTION	MORE THAI 300~500		JX
 12.2.3 INSPECTION LOT QUANTITY PER DELIV 12.2.4 INSPECTION METHOD A SAMPLING INSPECT FOLLOWING PROVISIO (a)APPLICABLE STANI MIL-STD-105E NORMAL INSPECTIO LEVEL II 	ION SHALL BE MADI ONS TO JUDGE THE A	E ACCORDIN CCEPTABILI		HE

EMERGING DISPLAY	MODEL NO.	VERSION	PAGE
TECHNOLOGIES CORPORATION	E T Q 5 7 0 G 0 D M 6	3	14

12.3 INSPECTION STANDARDS

12.3.1 VISUAL DEFECTS CLASSIFICATION

TYPE OF DEFECT	INSPECTION ITEM	DEFECT FEATURE	AQL
MAJOR DEFECT	1.DISPLAY ON	• DEFECT TO MISS SPECIFIED DISPLAY FUNCTION, FOR ALL AND SPECIFIED DOTS EX: DISCONNECTION, SHORT CIRCUIT ETC	
	2.BACKLIGHT	 NO LIGHT FLICKERING AND OTHER ABNORMAL ILLUMINATION 	0.65
	3.DIMENSIONS	• SUBJECT TO INDIVIDUAL ACCEPTANCE SPECIFICATIONS	
	1.DISPLAY ZONE	 BLACK/WHITE SPOT BUBBLES ON POLARIZER NEWTON RING BLACK/WHITE LINE SCRATCH CONTAMINATION LEVER COLOR SPREED 	
MINOR DEFECT	2.BEZEL ZONE	• STAINS • SCRATCHES • FOREIGN MATTER	1.0
	3.SOLDERING	 INSUFFICIENT SOLDER SOLDERED IN INCORRECT POSITION CONVEX SOLDERING SPOT SOLDER BALLS SOLDER SCRAPS 	
	4.DISPLAY ON (ALL ON)	• LIGHT LINE	

MODEL NO . E T Q 5 7 0 G 0 D M 6

12.3.2 MODULE DEFECTS CALSSIFICATION

DIMENSIONS (1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED. AND BLUE SCREENS. (2) ITEMS ACCEPTABLE COUNT BRIGHT DOT N ≤ 2 DARK DOT N ≤ 3 TOAL BRIGHT AND DARK DOTS N ≤ 4 NOTE : ITHE DEFINITION OF DOT : ITHE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOT S APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE I BRIGHT LINE/ SCRATCH OF VIEWING AREA LENGTH : L WIDTH : W FOREIGN MATTER \ BLACK SPOTS \ WHITE SPOTS \ DENT LENGTH : L mm MUBBER OF PIECES PERI D ≤ 0.15 < D ≤ 0.5 S. (ICLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.) NOTE : DIAMETER D=(a+b)/2 b	$\begin{array}{c} \text{OREIGN}\\ \text{OREIGN}\\ \text{OREIGN}\\ \text{OREIGN} \text{ATTER} \\ \text{OREIGN} \text$	D.	ITEM			ITERIA		
2. DIMENSIONS (1) OVERALL DIMENSION BEYOND SPEC 2. DIMENSIONS (1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED, AND BLUE SCREENS. 3. DOT DEFECT (2) 3. DOT DEFECT ITEMS ACCEPTABLE COUNT BRIGHT DOT N ≤ 2 DARK DOT N ≤ 3 TOAL BRIGHT AND DARK DOTS N ≤ 4 NOTE : I. THE DEFINITION OF DOT : THE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHI PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHIC PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE I BRIGHT LINE/ SCRATCH L ≤ 0.3 OF VIEWING AREA ILENGTH : L WIDTH : W FOREIGN MATTER \ BLACK SPOTS \ DENT I. SIZE IN WHITE + SOTS \ DENT 5. (INCLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.) NOTE : DIAMETER C (mm): D	DIMENSIONS(1)OVERALL DIMENSION BEYOND SPEC(1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED, O AND BLUE SCREENS. (2)(1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED, O AND BLUE SCREENS. (2)(2)ITEMSACCEPTABLE COUNT BRIGHT DOT DARK DOT TOAL BRIGHT AND DARK DOTS $N \leq 2$ DARK DOT N ≤ 3 TOAL BRIGHT AND DARK DOTSDOT DEFECTITEM SECOND BRIGHT AND DARK DOTS $N \leq 2$ DARK DOT N ≤ 3 TOAL BRIGHT AND DARK DOTSDOT DEFECTI. THE DEFINITION OF DOT : THE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT I REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI UDTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI OSCHIGN BARAOREIGN BRIGHT LINE/ OREIGN MATTER \ BLACK SPOTS \ WHITE SPOTS \ DENT INCLUDING LIGHT EAKAGE DIAMETER (mm): D 			(2)MISSING SEGN (3)DIM SEGMEN	MENT T	D SPEC		
1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED AND BLUE SCREENS. 2) ITEMS ACCEPTABLE COUNT BRIGHT DOT N ≤ 2 DARK DOT N ≤ 3 TOAL BRIGHT AND DARK DOTS N ≤ 4 NOTE : I. THE DEFINITION OF DOT : THE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE I BLACK/WHITE/ LENGTH : L WIDTH : W SCRATCH OF VIEWING AREA LENGTH : L WIDTH : W FOREIGN MATTER \ BLACK SPOTS \ WHITE SPOTS \ DENT AVERAGE DIAMETER (mm): D NUMBER OF PIECES PERIDES S. MITTE SPOTS \ DENT NOTE : DIAMETER D=(a+b)/2 b S. NOTE : DIAMETER D=(a+b)/2 b b	$(1) INSPECTION PATTERN: FULL WHITE, FULL BLACK, RED, CAND BLUE SCREENS. (2) \begin{array}{c c c c c c c c c c c c c c c c c c c $			(1)OVERALL DIN	MENSION BEYONI	D SPEC		
BRIGHT DOT $N \le 2$ DARK DOT3.DOT DEFECT $BRIGHT DOT$ $N \le 4$ 3.DOT DEFECT $NOTE :$ 1. THE DEFINITION OF DOT : THE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHIP PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHIC PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE I DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHIC PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE I 	DOT DEFECT $BRIGHT DOT$ $N \le 2$ DARK DOTDOT DEFECT $DARK DOT$ $N \le 3$ TOAL BRIGHT AND DARK DOTS $N \le 4$ NOTE : 1. THE DEFINITION OF DOT : THE SIZE OF A DEFECTIVE DOT OVER 1/2 OF WHOLE DOT I REGARDED AS ONE DEFECTIVE DOT. 2. BRIGHT DOT : DOTS APPEAR BRIGHT AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER BLACK PATTERN. 3. DARK DOT : DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI DOTS APPEAR DARK AND UNCHANGED IN SIZE IN WHICH PANEL IS DISPLAYING UNDER PURE RED, GREEN, BLUE PI OOREIGN BLACK/WHITE/ DF VIEWING AREA $LENGTH : L WIDTH : W PERMISSIBLE NO.L \le 0.3 W \le 0.05 IGNORE0.3 < L \le 2.5 0.05 < W \le 0.1 42.5 < L 0.1 < W NONE$			AND BLUE SC (2)	CREENS.			
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FOREIGN MATTER \ BLACK SPOTS \ WHITE SPOTS \ DENT 5. (INCLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.)	OREIGN MATTER \ BLACK SPOTS \ $0.15 < D \le 0.5$ 4OLACK SPOTS \ WHITE SPOTS \ DENT INCLUDING LIGHT LEAKAGE DUE TO OLARIZING PLATES $0.5 < D$ NONENOTE : DIAMETER D=(a+b)/2 b			AVERAGE DIA	METER (mm): D	NUMBER OF PIECE	S PERMITTE	
FOREIGN MATTER \ BLACK SPOTS \ WHITE SPOTS \ DENT 5. (INCLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.) HOTE : DIAMETER D=(a+b)/2 b b	OREIGN MATTER \ ORE \D 2 00 BLACK SPOTS \ 0.5 < D			D ≤	0.15		.E	
BLACK SPOTS \ WHITE SPOTS \ DENT 5. (INCLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.) b NOTE : DIAMETER D=(a+b)/2 b b	BLACK SPOTS \ 0.5 < D		FOREIGN MATTER \					
5. (INCLUDING LIGHT LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.)	INCLUDING LIGHT EAKAGE DUE TO OLARIZING PLATES	BLACH		0.5	< D	NONE	3	
LEAKAGE DUE TO POLARIZING PLATES PINHOLES, ETC.)	EAKAGE DUE TO OLARIZING PLATES			NOTE : DIAME	$\Gamma ER D = (a+b)/2$			
POLARIZING PLATES PINHOLES, ETC.)	OLARIZING PLATES () b		•		$\longrightarrow \pi$			
PINHOLES, ETC.)								
					۲ ⁰			
$ $ \leftarrow a \rightarrow	INHOLES, ETC.)	ļ	PINHOLES, ETC.)		$\checkmark \downarrow$			
					\longrightarrow			
		ļ						

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NO.	ITEM		CRITERIA	
_			AVERAGE DIAMETER (mm) : D	NUMBER OF PIECES PERMITTED
			D ≤ 0.25	IGNORE
		BUBBLE ON THE POLARIZER	$0.25 < D \le 0.5$	$N \le 5$
		FULARIZER	0.5 < D	NOTE
		SURFACE STATUS	D < 0.1 mm	IGNORE
		SURFACE STATUS	$0.1 < D \le 0.3 mm$	N ≤ 3
		CF FAIL / SPOT	D < 0.1 mm	IGNORE
		CF FAIL / SI OT	$0.1 < D \leq 0.3 mm$	$N \leq 3$
6.	BUBBLES OF POLARIZER /DIRT/CF FAIL /SURFACE STAINS	ON ACTIV BUBBLE APPEARS (2)THE EXT OBSERV (3)THE DEF AS FOLL	ER BUBBLE IS DEFINED VE DISPLAY AREA. THE I SHALL BE IGNORED IF T ON THE OUTSIDE OF AC RANEOUS SUBSTANCE I ED WHEN THE MODULE INITION OF AVERAGE D OWING. ED IAMETER (D)=(a+b)/2	DEFECT OF POLARIZER HE POLARIZER BUBBLE CTIVE DISPLAY AREA. IS DEFINED AS IT CAN B IS POWER ON. IAMETER, D IS DEFINED
7.	LINE DEFECT ON DISPLAY	OBVIOUS VERTICAI	L OR HORIZONTAL LINE	DEFECT IS NOT ALLOW
8.	MURA ON DISPLAY	IT'S OK IF MURA IS	SLIGHT VISIBLE THROU	NG 6% ND FILTER
9.	UNEVEN COLOR SPREAD, COLORATION	(1)TO BE DETERMIN	IED BASED UPON THE ST	TANDARD SAMPLE.
10.	BEZEL APPEARANCE	PRINTS STAINS O	HAVE RUST, BE DEFORM F OTHER CONTAMINAT MPLY WITH JOB SPECIFIC	ION.
11	РСВ	(1)THERE MAY NOT THE SEAL AREA (THAN THREE PLA (2)NO OXIDATION C (3)PARTS ON PCB M CHARACTERISTIC THERE SHOULD E PARTS. (4)THE JUMPER ON CHARACTERISTIC (5)IF SOLDER GETS	BE MORE THAN 2mm OF ON THE PCB, AND THERI ACES. OR CONTAMINATION PCI UST BE THE SAME AS OF C CHART. BE NO WRONG PARTS, M THE PCB SHOULD CONFO	E SEALANT OUTSIDE E SHOULD BE NO MORE B TERMINALS. N THE PRODUCTION ISSING PARTS OR EXCES ORM TO THE PRODUCT ED PAD, ZEBRA PAD OR

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(1)NO SOLDERING FOUND ON THE SPECIFIED PLACE (2)INSUFFICENT SOLDER (a)LSI, IC A POOR WETTING OF SOLDER IS BETWEEN LOWER BEND "HEEL" OF LEAD AND PAD SOLDER FILLET (b)CHIP COMPONENT • SOLDER IS LESS THAN 50% OF SIDES AND FRONT FACE WETTING SOLDER FILLET 1/2	NO		
(b)CHIP COMPONENT • SOLDER IS LESS THAN 50% OF SIDES AND FRONT FACE WETTING 12. SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED 12. SOLDERING • SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED (3)PARTS ALIGMENT (a)LSI, IC	NO.	ITEM	(2)INSUFFICENT SOLDER (a)LSI, IC A POOR WETTING OF SOLDER IS BETWEEN LOWER BEND OR
 SOLDER IS LESS THAN 50% OF SIDES AND FRONT FACE WETTING SOLDER FILLET 1/2 SOLDER FILLET SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED SOLDERING SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED SOLDER SOLDER SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED SOLDER SO			
12. SOLDERING 12. SOLDERING 12. SOLDER WETS 3 SIDES OF TERMINAL, BUT LESS THAN 25% OF SIDES AND FRONT SURFACE AREA ARE COVERED SOLDER (3)PARTS ALIGMENT (a)LSI, IC			• SOLDER IS LESS THAN 50% OF SIDES AND FRONT FACE
12. SOLDERING SIDES AND FRONT SURFACE AREA ARE COVERED SOLDER (3)PARTS ALIGMENT (a)LSI, IC			
(3)PARTS ALIGMENT (a)LSI, IC	12.	SOLDERING	
(a)LSI, IC			SOLDER
			(a)LSI, IC

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NO. ITEM	CRITERIA
	(b)CHIP COMPONENT COMPONENT IS OFF CENTER, AND MORE THAN 50% OF THE LEADS IS OFF THE PAD OUTLINE
12. SOLDERING	
	 (4)NO UNMELTED SOLDER PASTE MAY BE PRESENT ON THE PCB. (5)NO COLD SOLDER JOINTS, MISSING SOLDER CONNECTIONS, OXIDATION OR ICICLE. (6)NO RESIDUE OR SOLDER BALLS ON PCB. (7)NO SHORT CIRCUITS IN COMPONENTS ON PCB.
13. BACKLIGHT	 (1)NO LIGHT (2)FLICKERING AND OTHER ABNORMAL ILLUMINATION (3)SPOTS OR SCRATCHES THAT APPEAR WHEN LIT MUST BE JUDGEI USING LCD SPOT, LINES AND CONTAMINATION STANDARDS. (4)BACKLIGHT DOESN'T LIGHT OR COLOR IS WRONG.
14. GENERAL APPEARANCE	 (1)NO OXIDATION, CONTAMINATION, CURVES OR, BENDS ON INTERFACE PIN (OLB) OF TCP. (2)NO CRACKS ON INTERFACE PIN (OLB) OF TCP. (3)NO CONTAMINATION, SOLDER RESIDUE OR SOLDER BALLS ON PRODUCT. (4)THE IC ON THE TCP MAY NOT BE DAMAGED, CIRCUITS. (5)THE UPPERMOST EDGE OF THE PROTECTIVE STRIP ON THE INTERFACE PIN MUST BE PRESENT OR LOOK AS IF IT CAUSE THE INTERFACE PIN TO SEVER. (6)THE RESIDUAL ROSIN OR TIN OIL OF SOLDERING (COMPONENT OR CHIP COMPONENT) IS NOT BURNED INTO BROWN OR BLACK COLOR. (7)SEALANT ON TOP OF THE ITO CIRCUIT HAS NOT HARDENED. (8)PIN TYPE MUST MATCH TYPE IN SPECIFICATION SHEET. (9)LCD PIN LOOSE OR MISSING PINS. (10)PRODUCT PACKAGING MUST THE SAME AS SPECIFIED ON PACKAGING SPECIFICATION SHEET. (11)PRODUCT DIMENSION AND STRUCTURE MUST CONFORM TO PRODUCT SPECIFICATION SHEET. (12)THE APPEARANCE OF HEAT SEAL SHOULD NOT ADMIT ANY DIRT AND BREAK.

 $\begin{array}{c} \mbox{model no} \ . \\ \mbox{E T Q 5 7 0 G 0 D M 6} \end{array}$

NO. ITE	1	CRITERIA
NO. ITE		a b c $\leq t/2$ $\leq VIEWING AREA$ $\leq 1/8X$ $\forall 2 > , \leq 2t$ $\leq W/2$ $\leq 1/8X$ *W=DISTANCE BETWEEN SEALANT AREA AND LCD PANEL EDGE X = LCD SIDE LENGTH t = GLASS THICKNESS
15. CRACKED G	ASS CORNER PART : b CHIP ON ELECTRODE PAD	$\begin{tabular}{ c c c c c } \hline & a & b & c \\ \hline & \leq t/2 & < VIEWING AREA & \leq 1/8X \\ \hline & > t/2 & , \leq 2t & \leq W/2 & \leq 1/8X \\ \hline & *W=DISTANCE BETWEEN \\ SEALANT AREA AND LCD \\ PANEL EDGE \\ X = LCD SIDE LENGTH \\ t = GLASS THICKNESS \\ \hline & \hline & a & b & c \\ \hline & \leq t & \leq 0.5mm & \leq 1/8X \\ \hline & * X=LCD SIDE WIDTH \\ t = GLASS THICKNESS \\ \hline \end{tabular}$
		a b c ≤t ≤1/8X ≤L *X=LCD SIDE WIDTH t = GLASS THICKNESS L t=ELECTRODE PAD LENGTH ①IF GLASS CHIPPING THE ITO ①IF GLASS CHIPPING THE ITO TERMINAL, OVER 2/3 OF THE ITO MU REMAIN AND BE, INSPECTED ACCORDING TO ELECTRODE TERMINAL SPECIFICATIONS ②IF THE PRODUCT WILL BE HEAT SEALED BY THE CUSTOMER, THE ALIGNMENT MARK MUST NOT BE DEMAGED ************************************

12.4 RELIABILITY TEST

12.4.1 STANDARD SPECIFICATIONS FOR RELIABILITY OF LCD MODULE

NO	ITEM	DESCRIPTION
1	HIGH TEMPERATURE OPERATION	THE SAMPLE SHOULD BE ALLOWED TO STAND AT +70°C FOR 240 HRS
2	LOW TEMPERATURE OPERATION	THE SAMPLE SHOULD BE ALLOWED TO STAND AT -20°C FOR 240 HRS
3	HIGH TEMPERATURE STORAGE	THE SAMPLE SHOULD BE ALLOWED TO STAND AT +80°C FOR 240 HRS
4	LOW TEMPERATURE STORAGE	THE SAMPLE SHOULD BE ALLOWED TO STAND AT -30°C FOR 240 HRS
5	HIGH TEMP / HUMIDITY TEST STORAGE	THE SAMPLE SHOULD BE ALLOWED TO STAND AT 60°C , 90% RH 240 HRS
6	THERMAL SHOCK (NOT OPERATED)	THE SAMPLE SHOULD BE ALLOWED TO STAND THE FOLLOWING 10 CYCLES OF OPERATION: -40°C FOR 30 MINUTES ~ +85°C FOR 30 MINUTES
7		AIR DISCHARGE ± 12KV CONTACT DISCHARGE ± 8KV

NOTE (1) : THE TEST SAMPLES HAVE RECOVERY TIME FOR 2 HOURS AT ROOM TEMPERATURE BEFORE THE FUNCTION CHECK. IN THE STANDARD CONDITIONS, THERE IS NO DISPLAY FUNCTION NG ISSUE OCCURRED.

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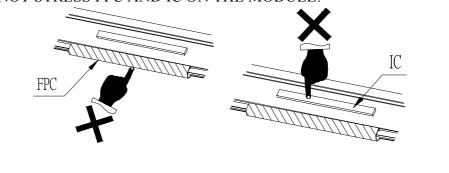
12.5 TESTING CONDITIONS AND INSPECTION CRITERIA

FOR THE FINAL TEST THE TESTING SAMPLE MUST BE STORED AT ROOM TEMPERATURE FOR 24 HOURS, AFTER THE TESTS LISTED IN TABLE 12.5, STANDARD SPECIFICATIONS FOR RELIABILITY HAVE BEEN EXECUTED IN ORDER TO ENSURE STABILITY.

NO	ITEM	TEST MODEL	INSPECTION CRITERIA
1	CURRENT CONSUMPTION	REFER TO SPECIFICATION	THE CURRENT CONSUMPTION SHOULD CONFORM TO THE PRODUCT SPECIFICATION.
2	CONTRAST	REFER TO SPECIFICATION	AFTER THE TESTS HAVE BEEN EXECUTED, THE CONTRAST MUST BE LARGER THAN HALF OF ITS INITIAL VALUE PRIOR TO THE TESTS.
3	APPEARANCE	VISUAL INSPECTION	DEFECT FREE

12.6 OPERATION

- 12.6.1 DO NOT CONNECT OR DISCONNECT MODULES TO OR FROM THE MAIN SYSTEM WHILE POWER IS BEING SUPPLIED .
- 12.6.2 USE THE MODULE WITHIN SPECIFIED TEMPERATURE ; LOWER TEMPERATURE CAUSES THE RETARDATION OF BLINKING SPEED OF THE DISPLAY ; HIGHER TEMPERATURE MAKES OVERALL DISPLAY DISCOLOR . WHEN THE TEMPERATURE RETURNS TO NORMALITY, THE DISPLAY WILL OPERATE NORMALLY .
- 12.6.3 ADJUST THE LC DRIVING VOLTAGE TO OBTAIN THE OPTIMUM CONTRAST .
- 12.6.4 POWER ON SEQUENCE INPUT SIGNALS SHOULD NOT BE SUPPLIED TO LCD MODULE BEFORE POWER SUPPLY VOLTAGE IS APPLIED AND REACHES THE SPECIFIED VALUE . IF ABOVE SEQUENCE IS NOT FOLLOWED , CMOS LSIS OF LCD MODULES MAY BE DAMAGED DUE TO LATCH - UP PROBLEM .
- 12.6.5 NOT ALLOWED TO INFLICT ANY EXTERNAL STRESS AND TO CAUSE ANY MECHANICAL INTERFERENCE ON THE BENDING AREA OF FPC DURING THE TAIL BENDING BACKWARDS! DO NOT STRESS FPC AND IC ON THE MODULE!



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12.7 NOTICE

12.7.1	USE A GROUNDED SOLDERING IRON WHEN SOLDERING
	CONNECTOR I/O TERMINALS . FOR SOLDERING OR REPAIRING,
	TAKE PRECAUTION AGAINST THE TEMPERATURE OF THE
	SOLDERING IRON AND THE SOLDERING TIME TO PREVENT PEELING
	OFF THE THROUGH-HOLE-PAD .

- 12.7.2 DO NOT DISASSEMBLE . EDT SHALL NOT BE HELD RESPONSIBLE IF THE MODULE IS DISASSEMBLED AND UPON THE REASSEMBLY THE MODULE FAILED .
- 12.7.3 DO NOT CHARGE STATIC ELECTRICITY , AS THE CIRCUIT OF THIS MODULE CONTAINS CMOS LSIS. A WORKMAN'S BODY SHOULD ALWAYS BE STATIC-PROTECTED BY USE OF AN ESD STRAP. WORKING CLOTHES FOR SUCH PERSONNEL SHOULD BE OF STATIC-PROTECTED MATERIAL .
- 12.7.4 ALWAYS GROUND THE ELECTRICALLY-POWERED DRIVER BEFORE USING IT TO INSTALL THE LCD MODULE. WHILE CLEANING THE WORK STATION BY VACUUM CLEANER, DO NOT BRING THE SUCKING MOUTH NEAR THE MODULE ; STATIC ELECTRICITY OF THE ELECTRICALLY-POWERED DRIVER OR THE VACUUM CLEANER MAY DESTROY THE MODULE .
- 12.7.5 DON'T GIVE EXTERNAL SHOCK.
- 12.7.6 DON'T APPLY EXCESSIVE FORCE ON THE SURFACE.
- 12.7.7 LIQUID IN LCD IS HAZARDOUS SUBSTANCE. MUST NOT LICK AND SWALLOW.WHEN THE LIQUID IS ATTACH TO YOUR, SKIN, CLOTH ETC. WASH IT OUT THOROUGHLY AND IMMEDIATELY.
- 12.7.8 DON'T OPERATE IT ABOVE THE ABSOLUTE MAXIMUM RATING.
- 12.7.9 STORAGE IN A CLEAN ENVIRONMENT, FREE FROM DUST, ACTIVE GAS, AND SOLVENT.
- 12.7.10 STORE WITHOUT ANY PHYSICAL LOAD.
- 12.7.11 REWIRING: NO MORE THAN 3 TIMES.