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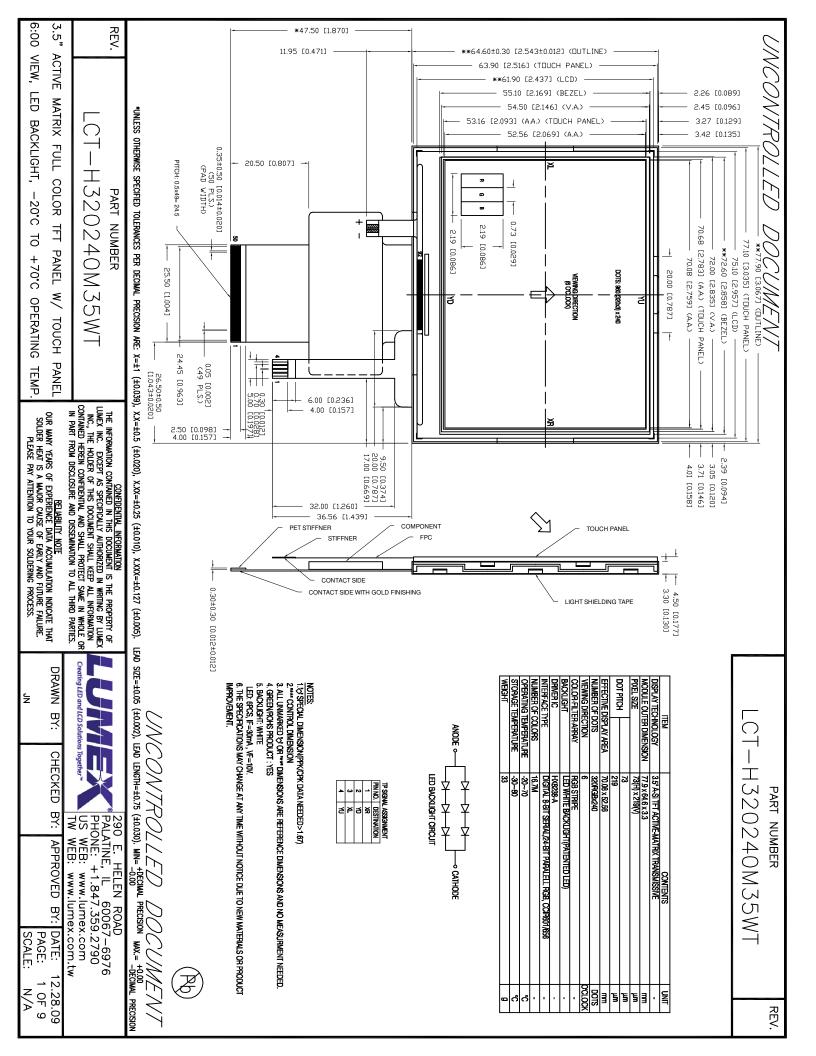
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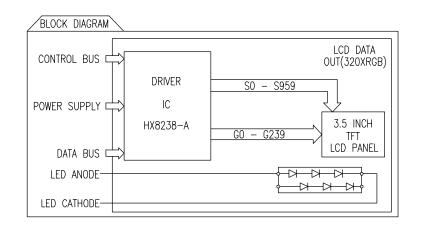
PART NUMBER

LCT-H320240M35WT

/ I	NTERFACE	PIN CONNECTION \		
PIN	SYMBOL	FUNCTION	PIN	SYMBOL
1	Α	ANODE OF BACKLIGHT POWER SUPPLY(DC 10V).	31	R1
2	Α	ANODE OF BACKLIGHT POWER SUPPLY(DC 10V).	32	R2
3	K	CATHODE OF BACKLIGHT SUPPLY.	33	R3
4	K	CATHODE OF BACKLIGHT SUPPLY.	34	R4
5	VSS	GROUND.	35	R5
6	VSS	GROUND.	36	R6
7	QXH	DATA SEQUENCE CONTROL PIN.	37	R7
8	POL	POLARITY SIGNAL TO MONITOR VCOM SIGNAL.	38	DEN
9	SD0	DATA OUTPUT PIN IN SERIAL MODE.	39	HSYNC
10	RESB	SYSTEM RESET PIN.	40	VSYNC
11	CSB	CHIP SELECT PIN OF SERIAL MODE.	41	DOTCLK
12	SCK	CLOCK PIN OF SERIAL INTERFACE.	42	SHUT
13	SDI	DATA PIN OF SERIAL INTERFACE.	43	TB
14	B0	DIGITAL DATA INPUT.(BLUE)	44	REV
15	B1	DIGITAL DATA INPUT.(BLUE)	45	RL
16	B2	DIGITAL DATA INPUT.(BLUE)	46	CM
17	B3	DIGITAL DATA INPUT.(BLUE)	47	BGR
18	B4	DIGITAL DATA INPUT.(BLUE)	48	VDDIO
19	B5	DIGITAL DATA INPUT.(BLUE)	49	NC
20	B6	DIGITAL DATA INPUT.(BLUE)	50	NC
21	B7	DIGITAL DATA INPUT.(BLUE)		
22	G0	DIGITAL DATA INPUT.(GREEN)		
23	G1	DIGITAL DATA INPUT.(GREEN)		
24	G2	DIGITAL DATA INPUT.(GREEN)		
25	G3	DIGITAL DATA INPUT.(GREEN)		
26	G4	DIGITAL DATA INPUT.(GREEN)		
27	G5	DIGITAL DATA INPUT.(GREEN)		
28	G6	DIGITAL DATA INPUT.(GREEN)	1	
29	G7	DIGITAL DATA INPUT.(GREEN)	1	
30	R0	DIGITAL DATA INPUT.(RED)		

#### TOUCH PANEL PIN CONNECTION `

/ '	/ TOO TYWEE THE OF THE						
PIN	SYMBOL	FUNCTION					
1	Y1	XR FILM					
2	X1	YD GLASS					
3	Y2	XL FILM					
4	X2	YU GLASS					



**FUNCTION** 

DISPLAY SHUT DOWN PIN TO PUT THE DRIVER INTO SLEEP MODE.

INPUT PIN TO SELECT THE SOURCE DRIVER DATA SHIFT DIRECTION

INPUT PIN TO SELECT 262K-COLOR OR 8-COLOR DISPLAY MODE.

INPUT PIN TO SELECT THE GATE DRIVER SCAN DIRECTION.

DIGITAL DATA INPUT.(RED)

DIGITAL DATA INPUT.(RED)

DIGITAL DATA INPUT.(RED)

DIGITAL DATA INPUT.(RED) DIGITAL DATA INPUT.(RED

DIGITAL DATA INPUT.(RED) DIGITAL DATA INPUT.(RED)

POWER INPUT PIN.

NOT CONNECT. NOT CONNECT

LINE SYNCHRONIZATION SIGNAL

FRAME SYNCHRONIZATION SIGNAL

DISPLAY ENABLE PIN FROM CONTROLLER.

DOT-CLOCK SIGNAL AND OSCILLATOR SOURCE

INPUT PIN TO SELECT THE DISPLAY REVISION.

INPUT PIN TO SELECT COLOR MAPPING.

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REV. PART NUMBER LCT-H320240M35WT

3.5" ACTIVE MATRIX FULL COLOR TFT PANEL W/ TOUCH PANEL 6:00 VIEW, LED BACKLIGHT, -20°C TO +70°C OPERATING TEMP

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### PART NUMBER

## LCT-H320240M35WT

/ ELECTRICAL CHARASTERISTICS \

	\					
ITEM	SYMBOL	STA	NDARD V	UNIT	REMARKS	
II LIM	SIMPOL	MIN	TYP.	MAX	UNII	KEWAKKS
	VDD	1.8	-	2.5	٧	
POWER VOLTAGE	VDDIO	1.4	-	3.6	٧	
	VIC	2.5 or VDDIO	_	3.6	٧	
GATE ON VOLTAGE	VGH	9.3	15	16.5	٧	
GATE OFF VOLTAGE	VGL	-15	-10	-5.1	٧	
INPUT HIGH VOLTAGE	VIH	0.8*VDDI0	-	VDDIO	٧	
INPUT LOW VOLTAGE	VIL	Vss	-	0.2*VDDI0	٧	
OUTPUT HIGH VOLTAGE	VOH	0.9*VDDI0	-	V <sub>DD</sub>	٧	IOH=100uA
OUTPUT LOW WOLTAGE	VOL	Vss	_	0.1*VDDI0	٧	IOL=100uA
VCOM HIGHT OUTPUT VOLTAGE	<b>VCOMH</b>	2.5	3.6	4.5	٧	
VCOM LOW OUTPUT VOLTAGE	VCOML	-3.0	-2.4	0	٧	

# ABSOLUTE MAXIMUM RATINGS

	\					
ITEM	SYMBOL	TEST	STA	STANDARD VALUE		
ITEM	SIMBUL	CONDITION	MIN	TYP.	MAX	UNIT
POWER VOLTAGE	VDDIO	Vss=0	-0.3	-	4.0	٧
	VDD	Vss=0	-0.3	_	2.7	٧
	VIC	Vss=0	Vss-0.3	_	5.0	٧

#### BACKLIGHT SPECIFICATIONS

	\						
ITFM	SYMBOL	STA	NDARD VA	UNIT	REMARKS		
IIEM	SIMIDUL	MIN	TYP.	MAX	UNII	LEMAKKS	
FORWARD VOLTAGE	Vf	8.8	10	10.5	٧	If=40mA	
ABSOLUTE MAX FORWARD CURRENT	lfm	35	-	50	mA		
REVERSE VOLTAGE	Vr	10.5	_	15	٧		
RESERVE CURRENT	lr	_	_	200	Α	Vr=15V	
CHROMACITY COORDINATES	Χ	0.26	_	0.32	-		
CHROMACITI COORDINATES	Υ	0.26	-	0.32	-		
LUMINANCE (BLU ONLY)	Lv	2800	3000	-	cd/m²	If=40mA	
UNIFORMITY	Δ	80	85	_	%	MIN/MAX*100%	
REMARK	LED PATENTED						
HALF-BRIGHTNESS LIFE TIME	50000 HOURS						

TOUCH SCREEN PANEL SPECIFICATIONS

#### **ELECTRICAL CHARASTERISTICS**

ITEM	STANDARD VALUE			UNIT	NOTE	
IIEM	MIN	TYP.	MAX	UNII	NOIL	
LINEARITY	-1.5	_	1.5	%	ANALOG X AND Y DIRECTIONS	
TERMINAL	100	_	_	Ω	X(FILM SIDE)	
RESISTANCE	100	-	-	Ω	Y(FILM SIDE)	
INSULATION RESISTANCE	25	_	_	ΩΜ	DC25V	
VOLTAGE	_	-	7	V	DC	
CHATTERING	-	_	10	ms	100KΩ PULL-UP	
TRANSPARENCY	-	80	_	%	NON-GLARE	

#### MECHANICAL & REABILITY CHARASTERISTICS

ITEM	STA	NDARD VA	UNIT	NOTE		
TILM	MIN	TYP.	MAX	OINII	NOIL	
ACTIVATION FORCE	80	_	100	g	(A)	
DURABILITY-SURFACE SCRATCHING	100,000	-	-	CHARACTERS	(B)	
DURABILITY-SURFACE PITTING	1,000,000	-	-	TOUCHS	(C)	
SURFACE HARDNESS	3	1	_	Н	-	

#### NOTES

- (A) STYLUS PEN INPUT: R 0.8mm POLYACETAL PEN OR FINGER
- (B) MEASURMENT FOR SURFACE AREA
- SCRATCH 100,000 TIMES STRAIGHT LINE ON THE FILM WITH A STYLUS CHANGE EVERY 20,000 TIMES
- FORCE: 250gf
- SPEED: 60mm/SEC
- STYLUS: RO.8 POLYACETAL TIP
- (C) PIT 1,000,000 TIMES ON THE FILM WITH A RO.8 SILICONE RUBBER
- FORCE: 250gf
- SPEED: 2 TIMES/SEC



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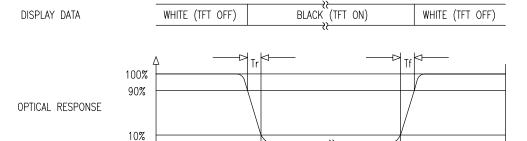
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### LCT-H320240M35WT

OPTICAL CHARASTERISTICS

			ī	ī				
ITEM	ITEM		CONDITION	STA	NDARD V	ALUE	UNIT	NOTE
IIEM		SYMBOL	CONDITION	MIN	TYP.	MAX	ONIT	NOIL
DECDONICE TIME		Tr	<b>0=0=</b> 0°C	-	15	20	٧	1
RESPONSE TIME		Tf	j <b>v≔</b> p≕uc	-	35	50	\ \ \	
CONTRAST RATIO		CR	<b>9=¢=</b> 0°C	150	250	-	٧	2
		RIGHT	<b>∳=</b> 0°C	-	45	-	DEG	3
VIEWING ANGLE		LEFT	<b>≠</b> 180°C	-	45	-	DEG	
(CR≥10)		UPPER	<b>∳=</b> 90°C	-	15	-	DEG	
		LOWER	<b>≠</b> 270°C	-	35	_	DEG	
LUMINANCE OF WHIT	E	L	_	200	220		01/2	5
(CENTER POINT OF	LCM)			200	220	_	Cd/m²	
COLOR CROMACITY		Rx		0.610	0.640	0.670	-	4
(CIE1931)		Ry		0.314	0.344	0.374	-	
		Gx		0.268	0.298	0.328	-	"SIMULATION
		Gy	<b>θ=ø=</b> 0°C	0.553	0.583	0.613	-	REFERENCE
"SIMULATION DATA_		Вх	) <b>•</b> ••• c	0.102	0.132	0.162	-	ONLY"
REFERENCE ONLY"		Ву		0.107	0.137	0.167	-	
		Wx		0.282	0.312	0.342	-	
		Wy		0.319	0.349	0.379	-	
OPTIMUM VIEWING DIRECTION				6 0'CLO	CK			-

NOTE(1): DEFINITION OF RESPONSE TIME



NOTE(2): DEFINITION OF CONTRAST RATIO CR=BRIGHTNESS AT ALL PIXELS "BLACK" / BRIGHTNESS AT ALL PIXELS "BLACK"

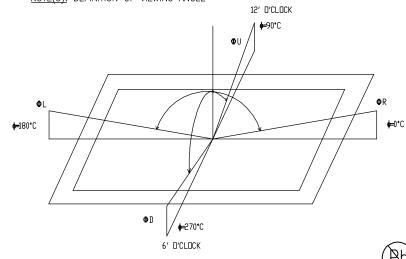
NOTE(4): MEASURED AT CENTER POINT VERTICALLY WITH BACKLIGHT ON."

NOTE(5): AFTER STABILIZING AND LEAVING THE PANEL ALONE AT GIVEN TEMPERATURE FOR 30MIN, THE MEASUREMENT SHOULD BE EXECUTED.

MEASURMENT SHOULD BE EXECUTED IN STABLE, WINDLESS, AND DARK ROOM 30 MINS AFTER LIGHTING THE BACK-LIGHT. THIS SHOULD BE MEASURED IN THE CENTER OF SCREEN.

ENVIRONMENT CONDITION: Ta=25±2°C BACK-LIGHT ON CONDITION

NOTE(3): DEFINITION OF VIEWING ANGLE



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TIME

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#### STANDARD SPECIFICATION FOR REABILITY

#### STANDARD SPECIFICATION OF REABILITY TEST

NO	TEST ITEM	CONTENT OF TEST	TEST CONDITION	APPLICABLE STANDARD				
1	HIGH TEMPERATURE STORAGE	ENDURANCE TEST APPLYING THE HIGH STORAGE TEMPERATURE FOR A LONG TIME.	80+/-3°C 240HRS					
2	LOW TEMPERATURE STORAGE	ENDURANCE TEST APPLYING THE LOW STORAGE TEMPERATURE FOR A LONG TIME.	-30+/-3°C 240HRS					
3	HIGH TEMPERATURE OPERATION	ENDURANCE TEST APPLYING THE ELECTRIC STRESS (VOLTAGE & CURRENT) AND THE THERMAL STRESS TO THE ELEMENT FOR A LONG TIME.	70+/-3°C 240HRS					
4	LOW TEMPERATURE OPERATION	ENDURANCE TEST APPLYING THE ELECTRIC STRESS UNDER LOW TEMPERATURE FOR A LONG TIME.	-20+/-3°C 240HRS					
5	HIGH TEMPERATURE/ HUMIDITY OPERATION	ENDURANCE TEST APPLYING THE ELECTRIC STRESS (VOLTAGE & CURRENT) AND TEMPERATURE / HUMIDITY STRESS TO THE ELEMENT FOR A LONG TIME.	40°C, 90%RH 120HRS	MIL-202E-103B JIS-C5023				
6	TEMPERATURE CYCLE	ENDURANCE TEST APPLYING THE LOW AND HIGH TEMPERATURE CYCLE.  -20°C \( \sum \) 25°C \( \sum \) 70°C \( \frac{30 \text{ MIN}}{\text{ 1 CYCLE}} \)	-20°C/ 70°C 10 CYCLES					
	MECHANICAL TEST							
7	DROP TEST		PACKED,100cm FREE FALL(6 SLIDES, 1 CORNER, 3 EDGES)					

#### **REMARKS:**

- 1. FOR OPERATION TEST, ABOVE SPECIFICATION IS APPLICABLE WHEN TEST PATTERN IS CHANGING DURING ENTIRE OPERATION TEST.
- 2. INSPECTIONS AFTER RELIABILITY TESTS ARE PERFORMED WHEN THE DISPLAY TEMPERATURE RESUMES BACK TO ROOM TEMPERATURE.
- 3. IT IS A NORMAL CHARACTERISTIC THAT SOME DISPLAY ABNORMALITY CAN BE SEEN DURING REABILITY TEST. IF THE DISPLAY ABNORMALITY CAN RESUME BACK TO NORMAL CONDITION AT ROOM TEMPERATURE WITHIN 24 HOURS, THERE IS NO PERMANENT DESTRUCTION OVER THE DISPLAY. THE DISPLAY STILL POSSESSES ITS FUNCTIONALITY AFTER REABILITY TESTS.



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## LCT-H320240M35WT

#### QUALITY ASSURANCE

#### ACCEPTABLE QUALITY LEVEL (AQL)

EACH LOT SHOULD SATISFY THE QUALITY LEVEL DEFINED AS FOLLOWS:

A. INSPECTION METHOD: MIL-SDT-105E LEVEL II NORMAL ONE TIME SAMPLING. B. AQL LEVEL.

- 1	CATEGORY	AQL	DFFINITION
	CATEGOINT	AQL	DEFINITION
	MAJOR	0.25%	FUNCTIONAL DEFECTIVE AS PRODUCT.
	MINOR	1.00%	SATISFY ALL FUNCTIONS AS PRODUCT BUT NOT SATISFY COSMETIC STANDARD.

#### COSMETIC SCREENING CRITERIA

NO	DEFECT	JUDGMENT CRITERIA	CATEGORY	
1	SPOTS/DUST /BUBBLE (ROUND TYPE)	SIZE, D(mm) ACCEPTABLE QUANTITY IN ACTIVE AREA D≤0.15 DISREGARD 0.15<0≤0.20 3 D>0.20 0	MINOR	
2		ACCEPTABLE QUANTITY WIDTH, W(mm) LENGTH, L(mm) IN ACTIVE AREA W≤0.02 DISREGARD DISREGARD W≤0.03 L ≤ 1.0 DISREGARD W≤0.05 L ≤ 2.0 3 W>0.05 DISREGARD 0	MINOR	
3	ALLOWABLE DENSITY	ABOVE DEFECTS SHOULD BE SEPARATED MORE THAN 5mm EACH OTHER.	MINOR	
4	RAINBOW OBVIOUS UNVEN COLOR (RAINBOW) SHALL NOT BE NOTICEABLE.			
5	DISPLAY CONDITION	DIM DISPLAY ON THE PATTERNS, EXTRA PATTERN AND SHORT CIRCUIT ARE NOT ACCEPTABLE.	MAJOR	
6	NO DISPLAY OR MISSING DISPLAY	THE PATTERNS OF DISPLAY SHALL LIGHT UP AS REQUIRED. NO DISPLAY OR MISSING DISPLAY ARE NOT ACCEPTABLE.	MAJOR	

NOTE: D= (LONG LENGTH + SORTH LENGTH)/2

#### FAILURE JUDGMENT CRITERIA

AFTER REABILITY TEST ABOVE, TEST SAMPLE SHALL BE LET RUN TO ROOM TEMPERATURE AND HUMIDITY AT LEAST 4 HOURS BEFORE FINAL TESTS ARE CARRIED OUT.

CRITERION ITEM	FAILURE JUDGMENT CRITERIA
ELECTRICAL CHARACTERISTIC	ELECTRICAL SHORT AND OPEN.
MECHANICAL CHARACTERISTIC	OUT OF MECHANICAL SPECIFICATION.
OPTICAL CHARACTERISTIC	OUT OF APPERANCE STANDARD.



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### LCT-H320240M35WT

#### PRECAUTIONS FOR USING LCD MODULE

#### HANDLING PRECAUTIONS

- 1, THE DISPLAY PANEL IS MADE OF GLASS AND POLARIZER. DO NOT SUBJECT IT TO MECHANICAL SHOCK BY 1, OBSERVE THE FOLLOWING WHEN SOLDERING LEAD WIRE, CONNECTOR CABLE AND ETC. TO THE LCD DROPPING OR IMPACT WITCH MAY CAUSE CHIPPING ESPECIALLY ON THE EDGES.
- 2. DO NOT TOUCH. PUSH OR RUB THE EXPOSED POLARIZERS WITH ANYTHING HARDER THAN AN HB PENCIL LEAD (GLASS, TWEEZERS, ETC.). THE POLARIZER COVERING THE DISPLAY SURFACE OF THE LCD MODULE IS SOFT AND EASILY SCRATCHED. HANDLE THIS POLARIZER CAERFULLY.
- 3. IF THE DISPLAY SURFACE BECOMES CONTAMINATED, BREATHE ON THE SURFACE AND GENTLY WIPE IT WITH ABOVE IS A RECOMMENDED APPROACH. DUE TO DIFFERENT SOLDER COMPOSITION AND PROCESSING METHOD, A SOFT DRY CLOTH. IF IT IS HEAVILY CONTAMINATED, MOISTEN CLOTH WITH ISOPROPYL ALCOHOL OR ETHYL ALCOHOL. AVOID USING SOLVENTS LIKE ACETONE (KETENE), WATER, TOLUENE, ETHANOL TO CLEAN THE POLARIZER SURFACE.
- 4. PLEASE KEEP THE TEMPERATURE WITHIN SPECIFIED RANGE FOR USE AND STORAGE. POLARIZATION DEGRADATION. BUBBLE GENERATION OR POLARIZER PEEL-OFF MAY OCCUR WITH HIGH TEMPERATURE AND HIGH HUMIDITY.
- 5. DO NOT APPLY EXCESSIVE FORCE TO THE DISPLAY SURFACE OR THE ADJOINING AREAS SINCE THIS MAY CAUSE THE COLOR TONE TO VARY.
- 6. INSTALL THE LCD MODULE BY USING THE MOUNTING HOLES. WHEN MOUNTING THE LCD MODULE MAKE SURE IT IS FREE OF TWISTING, WARPING AND DISTORTION.
- 7. EXERCISE CARE TO MINIMIZE CORROSION OF THE ELECTRODE. CORROSION OF THE ELECTRODES IS ACCELERATED BY WATER DROPLETS, MOISTURE CONDENSATION OR A CURRENT FLOW IN A HIGH-HUMIDITY FNVIRONMENT.
- 8. NC TERMINAL SHOULD BE OPEN. DO NOT CONNECT ANYTHING.
- 9. IF THE LOGIC CIRCUIT POWER IS OFF, DO NOT APPLY THE INPUT SIGNALS.
- 10. AVOID CONTACTING OIL AND FATS.
- 11. CONDENSATION ON THE SURFACE AND CONTACT WITH TERMINALS DUE TO COLD WILL DAMAGE, STAIN OR HOWEVER, IT WILL RETURN TO NORMAL IF IT IS TURNED OFF AND THEN BACK ON. DIRTY THE POLARIZERS. AFTER PRODUCTS ARE TESTED AT LOW TEMPERATURE THEY MUST BE WARMED UP IN 5. WHEN TURNING THE POWER ON, INPUT EACH SIGNAL AFTER THE POSITIVE/NEGATIVE VOLTAGE BECOMES A CONTAINER BEFORE COMING IN CONTACT WITH ROOM TEMPERATURE AIR.
- 12. WIPE OFF SALIVA OR WATER DROPS IMMIDEATLY, CONTACT WITH WATER OVER A LONG PERIOD OF TIME MAY CAUSE DEFORMATION OR COLOR FADING.

#### ELECTRO-STATIC DISCHARGE CONTROL

- 1, SINCE THIS MODULE USES A CMOS LSI, THE SAME CAERFUL ATTENTION SHOULD BE PAID TO ELECTROSTATIC DISCHARGE AS FOR AN ORDINARY CMOS IC.
- 2. BE SURE TO GROUND THE BODY WHEN HANDLING THE LCD MODULES. TOOLS REQUIRED FOR ASSEMBLING, SUCH AS SOLDERING IRONS, MUST BE PROPERLY GROUNDED.
- 3. TO REDUCE THE AMOUNT OF STATIC ELECTRICITY GENERATED, DO NOT CONDUCT ASSEMBLING AND OTHER WORK UNDER DRY CONDITIONS. TO REDUCE THE GENERATION OF STATIC ELECTRICITY, BE CARFUL THAT THE AIR IN THE WORK AREA IS NOT TOO DRY. A RELATIVE HUMIDITY OF 50%-60% IS RECOMMENDED.
- 4. THE LCD MODULE IS COATED WITH A FILM TO PROTECT THE DISPLAY SURFACE. EXERCISE CARE WHEN PEELING OFF THIS PROTECTIVE FILM SINCE STATIC ELECTRICITY MAY BE GENERATED.
- 5. WHEN SOLDERING THE TERMINAL OF LCM, MAKE CERTAIN THE AC POWER SOURCE FOR THE SOLDERING IRON DOES NOT LEAK.

#### PRECAUTION OF SOLDERING TO THE LCM

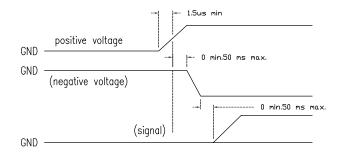
- MODULE.
- SOLDERING IRON TEMPERATURE: 300~350°C.
- SOLDERING TIME: ≤3 SEC.
- SOLDER: EUTECTIC SOLDER.

IT IS RECOMMENDED THAT CUSTOMER TO STUDY AND FINE TUNING THEIR SOLDERING PROCESS PARAMETERS ACCORDINGLY.

2. IF SOLDERING FLUX IS USED, BE SURE TO REMOVE ANY REMANING FLUX AFTER FINISHING TO SOLDERING OPERATION. (THIS DOES NOT APPLY IN THE CASE OF A NON-HALOGEN TYPE OF FLUX.) IT IS RECOMMENDED THAT YOU PROTECT THE LCD SURFACE WITH A COVER DURING SOLDERING TO PREVENT ANY DAMAGE DUE TO FLUX SPATTERS.

#### PRECAUTION FOR OPERATION

- 1. VIEWING ANGLE VARIES WITH THE CHANGE OF LIQUID CRYSTAL DRIVING VOLTAGE (Vo). ADJUST Vo TO SHOW THE BEST CONTRAST.
- 2. DRIVING THE LCD IN THE VOLTAGE ABOVE THE LIMIT SHORTERNS ITS LIFETIME.
- 3. RESPONSE TIME IS GREATLY DELAYED AT TEMPERATURE BELOW THE OPERATING TEMPERATURE RANGE. HOWEVER, IT WILL RECOVER WHEN IT RETURNS TO THE SPECIFIED TEMPERATURE RANGE.
- 4. IF THE DISPLAY AREA IS PUSHED HARD DURING OPERATION, THE DISPLAY WILL BECOME ABNORMAL.
- STABLE (BELOW FIGURE IS A GENERAL ILLUSRATION WHERE TYPICAL VALUE DEPENDS ON INDIVIDUAL PRODUCT DESIGN).



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RFV.

### PART NUMBER

### LCT-H320240M35WT

3.5" ACTIVE MATRIX FULL COLOR TFT PANEL W/ TOUCH PANEL 6:00 VIEW, LED BACKLIGHT, -20°C TO +70°C OPERATING TEMP

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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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#### RoHS COMPLIANT PRODUCT

1. CADMIUM AND CADMIUM COMPOUNDS
2. HEXAVALENT CHROMIUM COMPOUNDS
3. LEAD AND LEAD COMPOUNDS
4. MERCURY AND MERCURY COPMPOUNDS
5. POLYBROMINATED BIPHENYLS (PBBs)
6. POLYBROMINATED DIPHENYL ETHERS (PBDEs)
LESS THAN 1000PPM
6. POLYBROMINATED DIPHENYL ETHERS (PBDEs)
LESS THAN 1000PPM

#### PACKAGING STANDARD

PRODUCT NO.	LCT-H320240M35W	RELEASE DATE	2009
PRODUCT NAME.	TFT MODULE	PREPARE BY:	
QUANTITY/ EACH BOX	168 PCS.	BOX MATERIAL	PAPER CARTON
OUTER CARTON BOX SIZE	465mm x 405mm x 305mm	BOX TYPE	NEW
QUANTITY/ INER BOX QUANTITY/ OUTER BOX	12 X 7 X 2 = 168 PCS.	WEIGHT	8.6 KG

THERE ARE 12 PCS LCD PER EACH ANTI-STATIC PLASTIC PLATE.
THERE ARE 7 LAYER PLASTIC PLATES PER EACH INNER CARTON BOX.
THERE ARE 2 INNER CARTON BOX PER EACH OUTER CARTON BOX.

#### **STORAGE**

- 1. WHEN STORING LCDS AS SPARES FOR SOME YEARS, THE FOLLOWING PRECAUCTIONS ARE NECESSARY.
- 2. STORE THEM IN A SEALED POLYETHYLENE BAG. IF PROPERLY SEALED, THERE IS NO NEED FOR DESICCANT.
- 3. STORE THEM IN A DARK PLACE. DO NOT EXPOSE TO SUNLIGHT OR FLUORESCENT LIGHT, KEEP THE TEMPERATURE BETWEEN 0°C AND 35°C.
- 4. ENVIRONMENTAL CONDITIONS:
- 5. DO NOT LEAVE THEM FOR MORE THAN 168HRS. AT 60°C.
- 6. SHOULD NOT BE LEFT FOR MORE THAN 48HRS. AT -20°C.

#### SAFETY

- 1. ITS RECOMMENDED TO CRUSH DAMAGED OR UNNECESSARY LCD INTO PIECES AND WASH THEM OFF WITH SOLVENTS SUCH AS ACETONE AND ETHANOL, WHICH SHOULD LATER BE BURNED.
- 2. IF ANY LIQUID LEAKS OUT OF DAMAGED GLASS CELL AND COMES IN CONTACT WITH THE HANDS, WASH OFF THOROUGHLY WITH SOAP AND WATER.

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OR Creating LED and LCD Solutions Together

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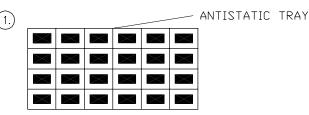
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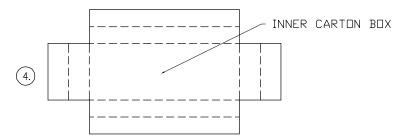
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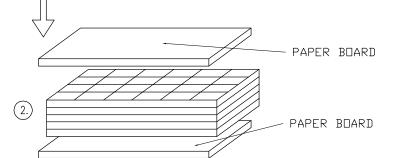
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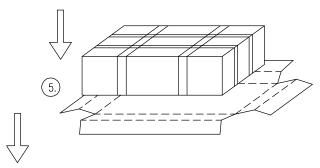
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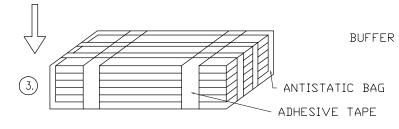
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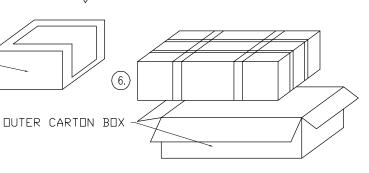


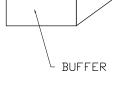












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