

UNCONTROLLED DOCUMENT

PART NUMBER

LCM-H320240GWF/E-W

REV.

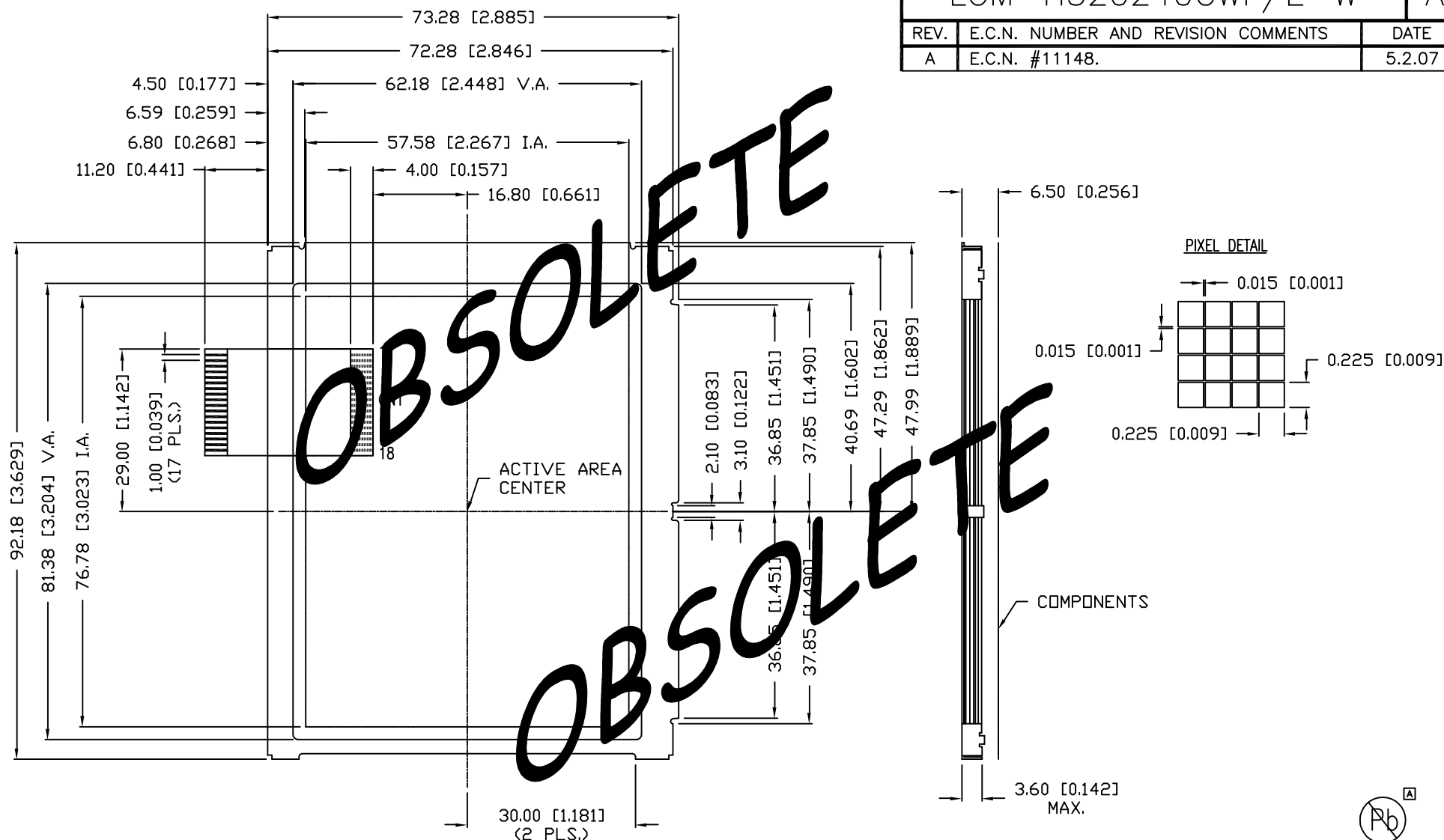
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REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #11148.

5.2.07



*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX= +0.00 -DECIMAL PRECISION

REV.

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PART NUMBER

LCM-H320240GWF/E-W

320 x 240 1/4 VGA GRAPHIC LCD MODULE, FSTN,
TRANSFLECTIVE, WHITE EL BACKLIGHT, 1/240 DUTY, 1/16 BIAS.

CONFIDENTIAL INFORMATION

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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.

LUMEX
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DATE: 12.11.00

PAGE: 1 OF 2

SCALE: N/A

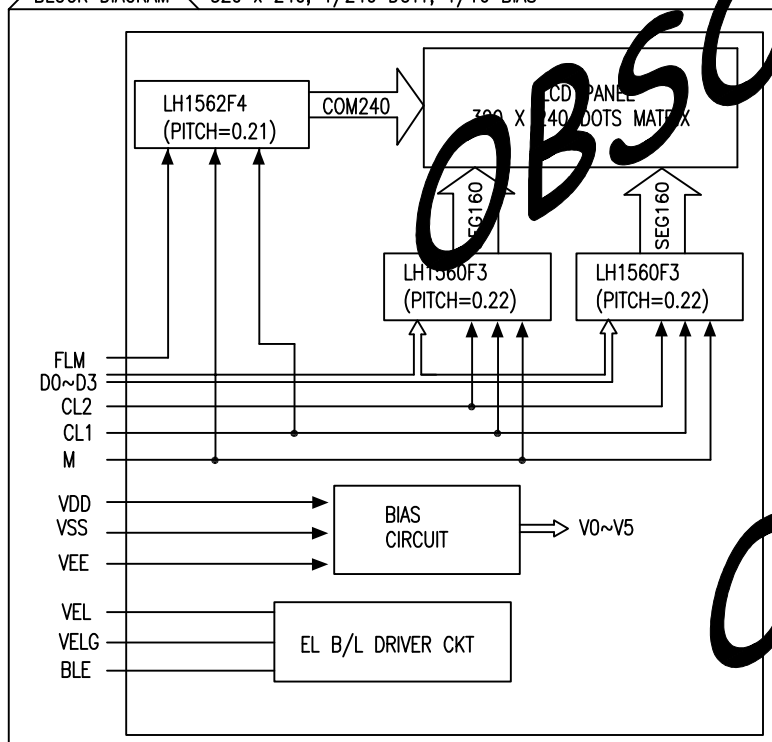
ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	-0.3	+7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_o$	-	-0.3	+30	V
INPUT VOLTAGE	V_I	$T_a=25^{\circ}\text{C}$	-0.3	$V_{DD}+30$	V
OPERATING TEMPERATURE	T_{opr}	LCM-H	-20	+70	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{stg}	LCM-H	-30	+80	$^{\circ}\text{C}$

PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1	CL2	-	DATA SHIFT CLOCK SIGNAL
2	CL1	-	DATA LATCH SIGNAL
3	FLM	-	FIRST LINE MARKER
4	M	-	ALTERNATE SIGNAL
5~8	DB0~DB3	-	DISPLAY DATA BUS
9	VEE	-	VOLTAGE FOR LCD PANEL
10	VDD	-	POWER SUPPLY POSITIVE
11	VSS	-	GND
12	BLE	-	H: EL BACKLIGHT ENABLE L: EL BACKLIGHT DISABLE
13	VELG	-	EL BACKLIGHT GND
14	VEL	-	POWER SUPPLY POSITIVE
15~18	NC	-	NO CONNECTION

BLOCK DIAGRAM 320 x 240, 1/240 DUTY, 1/16 BIAS

ELECTRICAL CHARACTERISTICS $V_{DD}=4.7\text{V to }5.3\text{V}, T_a=25^{\circ}\text{C}$

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5\text{V}$	-	2.0	3.0	mA
INPUT VOLTAGE	HIGH	V_{IH}	-	2.2	-	4.7
	LOW	V_{IL}	-	0	-	0.6
OUTPUT VOLTAGE	HIGH	V_{OH}	-	2.4	-	-
	LOW	V_{OL}	-	-	0.4	-
*LED BACKLIGHT	VOLTAGE	V_f	$I_f=160\text{mA}$	-	4.2	4.5
	CURRENT	I_f	-	-	160	400
	POWER CONSUMPTION	PD	-	-	660	-
	LUMINOUS	L	$I_f=160\text{mA}$	70	-	-
	COLOR	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

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