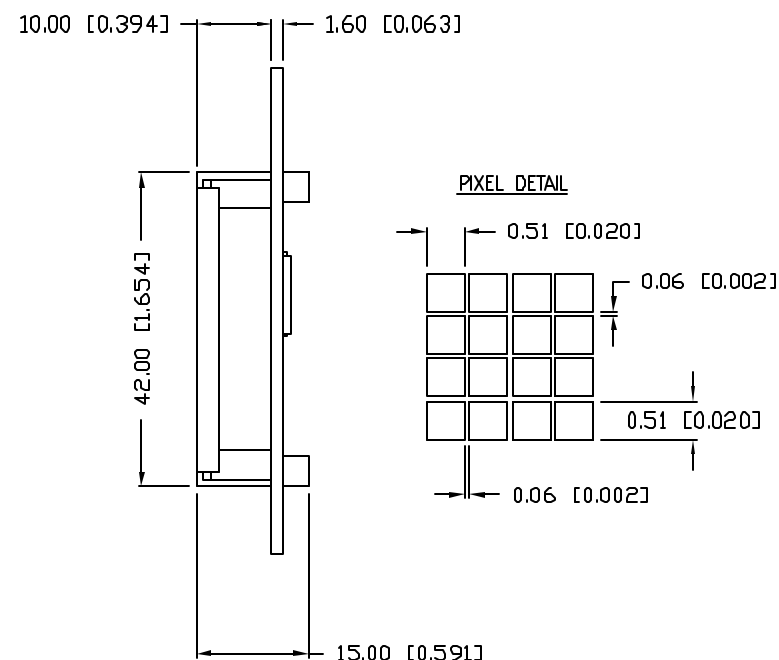
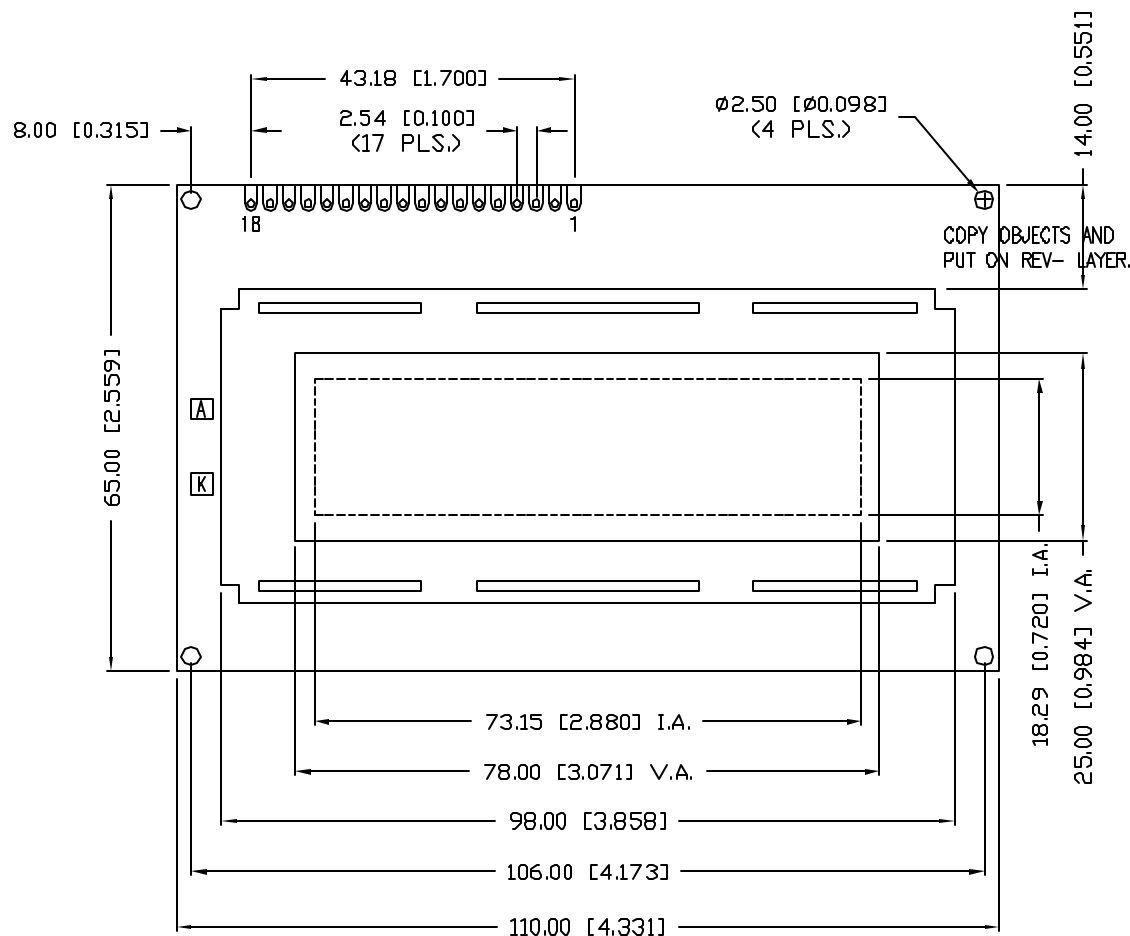


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
LCM-H12832GSF-Y		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148.	4.20.07

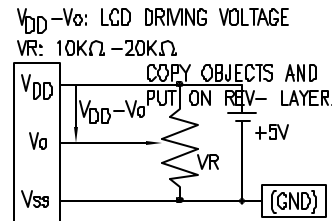
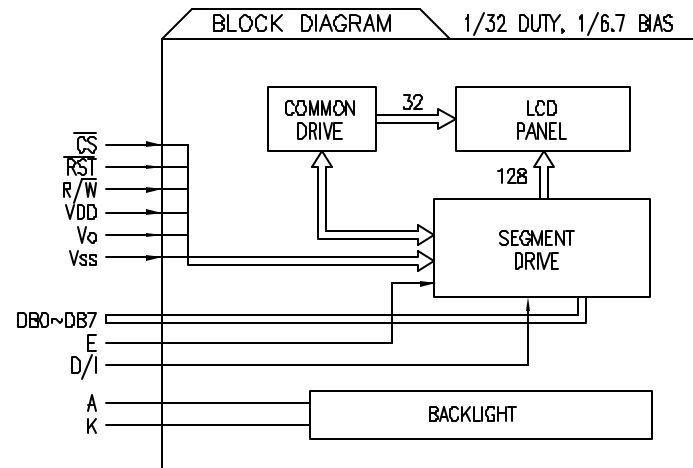


*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER	CONFIDENTIAL INFORMATION		 290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw			
A	LCM-H12832GSF-Y	THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.					
128 x 32 DOT MATRIX GRAPHIC LCD MODULE, TRANSFLECTIVE, STN YELLOW, 1/32 DUTY, 1/6.7 BIAS.		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.		DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 3.24.01
				JC			PAGE: 1 OF 2
							SCALE: N/A

LCM-H12832GSF-Y

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	SEE PAGE #1	



PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V_o	-	POWER SUPPLY	FOR LCD DRIVE
2	V_{DD}	-		5V
3	V_{SS}	-		GND (0V)
4	E	H/L	ENABLE SIGNAL (NO PULL-UP RESISTOR)	
5	D/I	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
6	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<-->MPU)	
7	RST	L	RESET SIGNAL	
8	CS	L	CHIP SELECT SIGNAL	
9~16	DB0~DB7	H/L	DATA BUS	
17	K	-	CATHODE	LED BACKLIGHT
18	A	-	ANODE	LED BACKLIGHT

ELECTRICAL CHARACTERISTICS		$V_{DD}=4.75V$ to $5.25V$, $T_A=25^\circ C$				
ITEM		SYMBOL	CONDITION	STANDARD VALUE		
				MIN.	TYP.	MAX.
SUPPLY VOLTAGE FOR LOGIC		$V_{DD}-V_{SS}$	-	4.75	5.0	5.25
SUPPLY CURRENT FOR LOGIC		I_{DD}	$V_{DD}=5V$	-	8.0	-
INPUT VOLTAGE	HIGH	V_{IH}	-	0.7* V_{DD}	-	V_{DD}
	LOW	V_{IL}	-	0	-	0.3* V_{DD}
*LED BACKLIGHT	VOLTAGE	V_f	$I_f=1200mA$	-	5.0	-
	CURRENT	I_f	-	-	1200	-
	POWER CONSUMPTION	PD	-	-	6000	-
	LUMINOUS	L	$I_f=1200mA$	60	90	-
	COLOR	-	-	-	-	-

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UN
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	$T_a=25^\circ C$	-	7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_o$	-	10.8@40°C	12.4@0°C	V
INPUT VOLTAGE	V_i	$T_a=25^\circ C$	V_{SS}	V_{DD}	V
OPERATING TEMPERATURE	T_{opr}	LCM-H	-20	70	°C
STORAGE TEMPERATURE	T_{stg}	LCM-H	-30	80	°C

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REV.	PART NUMBER
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			PAGE: 2 OF
			SCALE: N/A