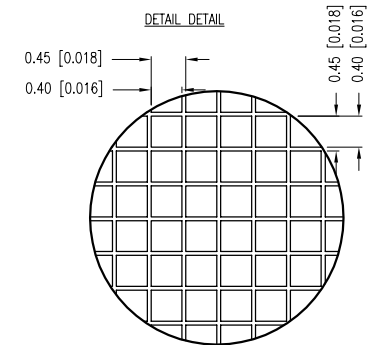
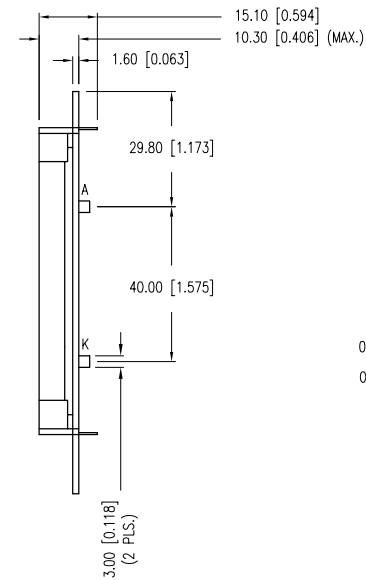
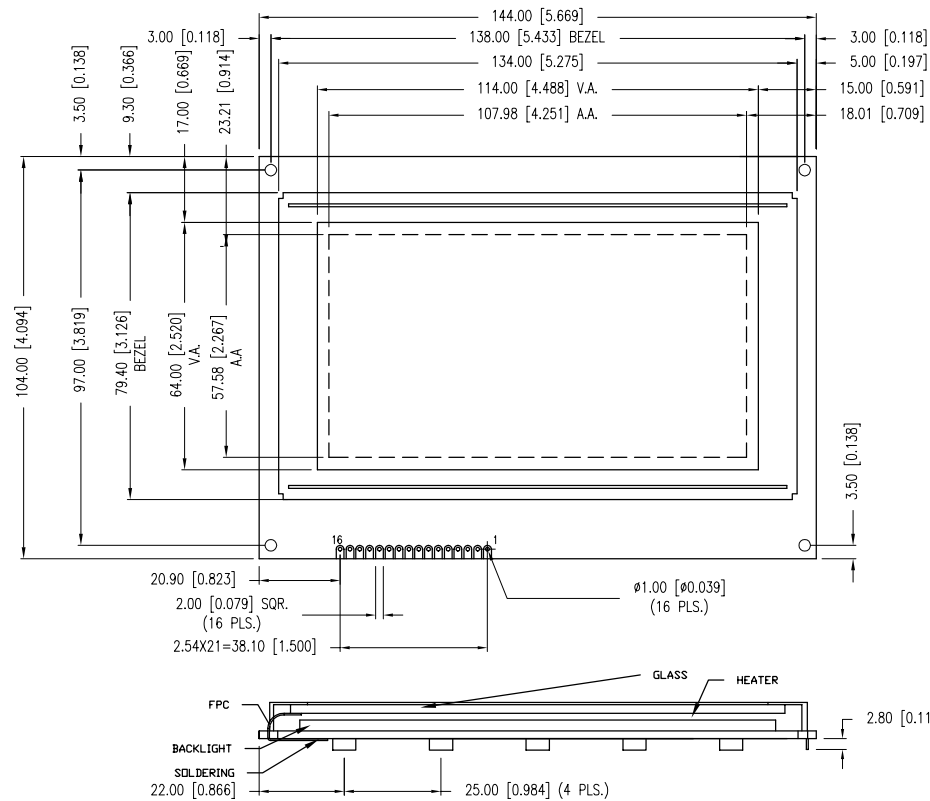




*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN.= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

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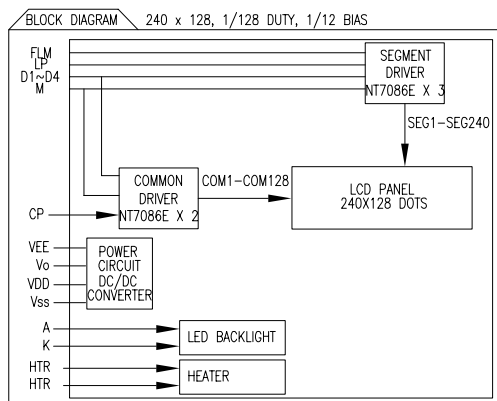
290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
FAX: +1.847.359.6538
WEB: WWW.LUMEX.COM

240x128 GRAPHIC LCD MODULE, FSTN, TRANSFLECTIVE, WHITE LED BACKLIGHT, W/HEATER, 6:00 VIEW, VLCD=18.0V.

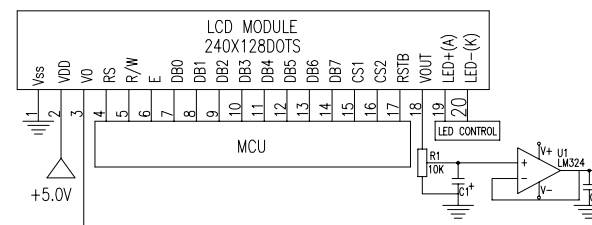
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PAGE:	1 OF 2	CHKD BY:	YA
SCALE:	NTS	APRVD BY:	BC
UNIT:	mm [INCH]		(Pb)



NOTES:
 1. R1 IS THE CONTRAST RESISTOR.
 2. VOUT=-10.0V
 3. ADJUST R1 TO GET GOOD CONTRAST. TYP: VO IS -13.0V.



ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	$T_a=25^{\circ}\text{C}$	MIN	MAX	V
SUPPLY VOLTAGE FOR LCD DRIVE	V_{LCD}	-	0	30	V
INPUT VOLTAGE	V_{IN}	$T_a=25^{\circ}\text{C}$	-0.3	$V_{DD}+0.3$	V
OPERATING TEMPERATURE	T_{opr}	W/ HEATER	-40	+85	$^{\circ}\text{C}$
STORAGE TEMPERATURE	T_{stg}	W/ HEATER	-40	+85	$^{\circ}\text{C}$

PIN CONFIGURATION		
PIN NO.	SYMBOL	FUNCTION
1	FLM	FIRST LINE MAKER
2	M	CONTROL SIGNAL FOR AC DRIVING
3	LP	COMMON DRIVER DATA SHIFT SIGNAL
4	CP	CLOCK PULSE FOR SEGMENT SHIFT REGISTER
5	V_{DD}	POWER SUPPLY
6	V_{SS}	GROUND
7	V_{EE}	POWER SUPPLY VOLTAGE FOR LCD
8	D1_SID	DATA BIT INPUT/OUTPUT
9	D2_DL	
10	D3_DM	
11	D4_DR	
12	V_o	CONTRAST ADJUSTMENT VOLTAGE
13	LED+ (A)	ANODE OF LED
14	LED- (K)	CATHODE OF LED
15	HTR +	POWER SUPPLY FOR HEATER +12V
16	HTR -	POWER SUPPLY FOR HEATER GND

ELECTRICAL CHARACTERISTICS		$V_{DD}=2.7\text{V}$ to 5.5V , $T_A=25^{\circ}\text{C}$			
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	-	2.7	5.0	5.5
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_o$	$V_{DD}=5\text{V}$	6.0	18.0	28.0
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5\text{V}$	-	8.2	13.0
LED BACKLIGHT	VOLTAGE	$I_f=60\text{mA}$	-	5.0	-
	CURRENT	-	-	60	80
	POWER CONSUMPTION	PD	-	192	-
	LUMINOUS	L	-	150	-
	COLOR	X	.260	-	.330
	COORDINATE	Y	.260	-	.330
HEATER	VOLTAGE	V_{TH}	-	12	-
	RESISTANCE	-	160	210	260
	CURRENT	I _H	40	60	80
	POWER	PH	-	0.71	-

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