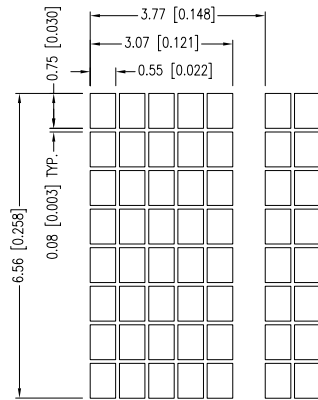
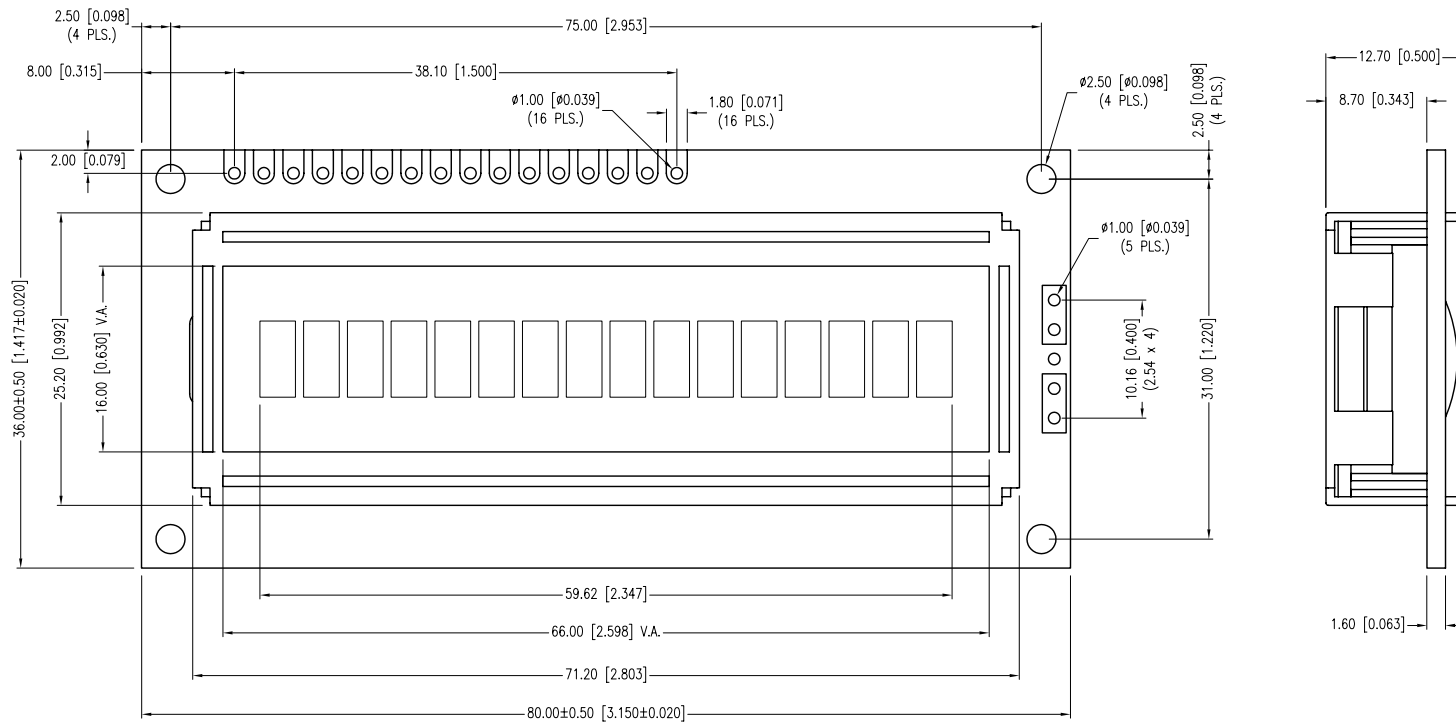
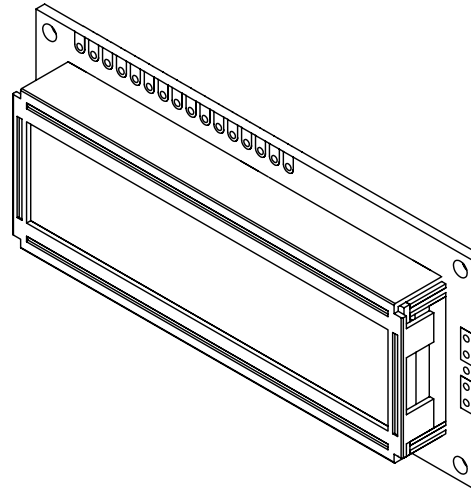


CHARACTER DETAIL



CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



*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

UNCONTROLLED DOCUMENT



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

6.56mm CHAR HEIGHT, 5x8 DOT MATRIX, 16x1 LCD MODULE, 1/16 DUTY, 1/5 BIAS, YELLOW STN, LED BKL.

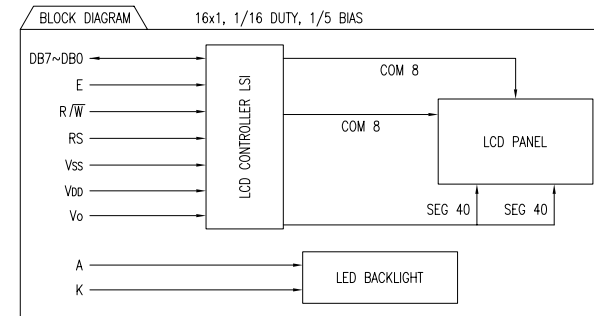
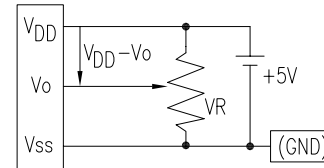
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION
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.

DATE:	03.06.12	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	KF
UNIT:	mm [INCH]		Ⓟ

PIN CONFIGURATION			FUNCTION	
PIN NO.	SYMBOL	LEVEL		
1	Vss	—	POWER SUPPLY	GND (0V)
2	VDD	—		5V
3	Vo	—		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)	
6	E	H,H->L	ENABLE	
7~14	DB0~DB7	H/L	DATA BUS—SOFTWARE SELECTABLE 4 OR 8 BIT MODE	
15	A	—	ANODE LED BACKLIGHT	
16	K	—	CATHODE LED BACKLIGHT	

$V_{DD}-V_o$: LCD DRIVING VOLTAGE
 V_R : $10K\Omega \sim 20K\Omega$



ELECTRICAL CHARACTERISTICS		$V_{DD}=4.7V$ to $5.3V$, $T_a=25^\circ C$				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{SS}$	—	MIN	TYP	MAX	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5V$	—	1.6	2.5	mA
INPUT VOLTAGE	HIGH	V_{IH}	—	2.2	—	V_{DD} V
	LOW	V_{IL}	—	0	—	0.6 V
OUTPUT VOLTAGE	HIGH	V_{OH}	—	2.4	—	V
	LOW	V_{OL}	—	—	0.4	V
LED BACKLIGHT	VOLTAGE	V_f	$I_f=150mA$	—	4.2	4.6 V
	CURRENT	I_f	—	—	150	200 mA
	POWER CONSUMPTION	P_D	—	—	630	mW
	LUMINOUS	L	$I_f=150mA$	70	—	cd/m^2
	COLOR	—	—	—	—	nm

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _o	—	4.2 AT 50°C	4.8 AT 0°C	V
INPUT VOLTAGE	V _i	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	+50	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	+70	°C

*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= $\begin{smallmatrix} +0.00 \\ -0.00 \end{smallmatrix}$ DECIMAL PRECISION MAX.= $\begin{smallmatrix} +0.00 \\ -0.00 \end{smallmatrix}$ DECIMAL PRECISION

UNCONTROLLED DOCUMENT



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

6.56mm CHAR HEIGHT, 5x8 DOT MATRIX, 16x1 LCD MODULE, 1/16 DUTY, 1/5 BIAS, YELLOW STN, LED BKL.T.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION
 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.

DATE:	03.06.12	DRAWN BY:	AB
PAGE:	2 OF 2	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	KF
UNIT:	mm [INCH]		Ⓟ

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

[LCM-S01601DSF-Y](#)