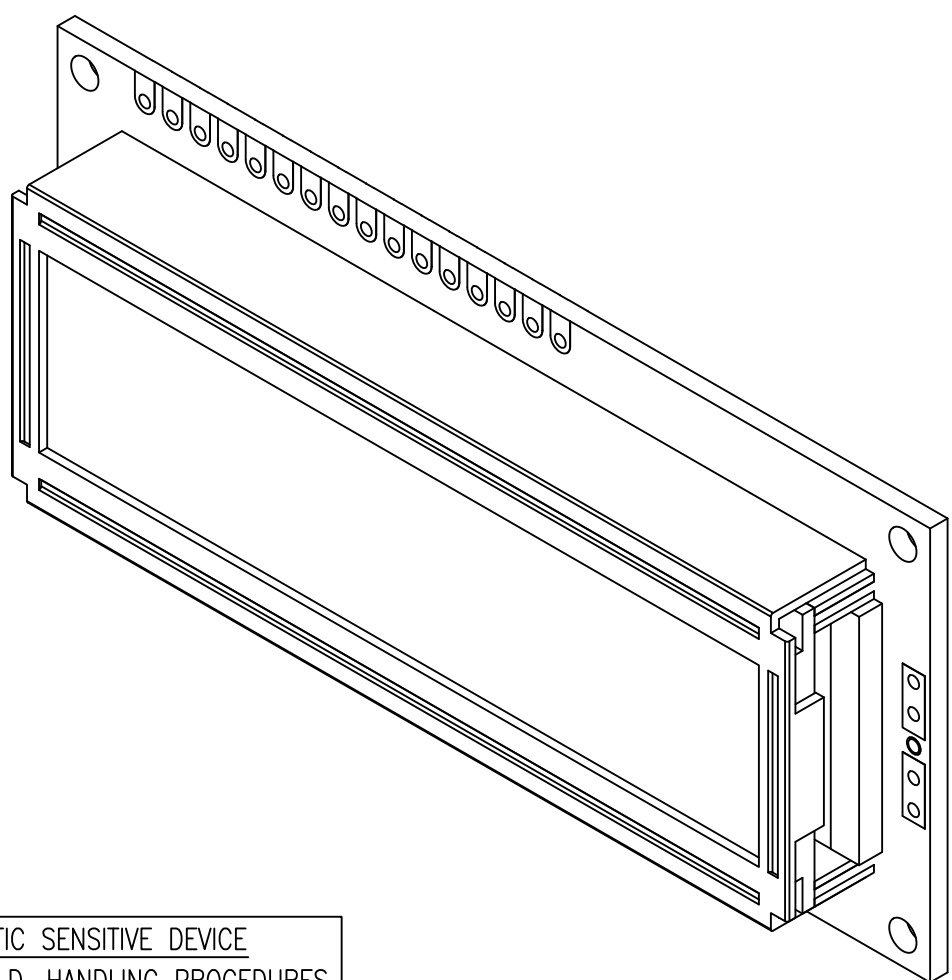
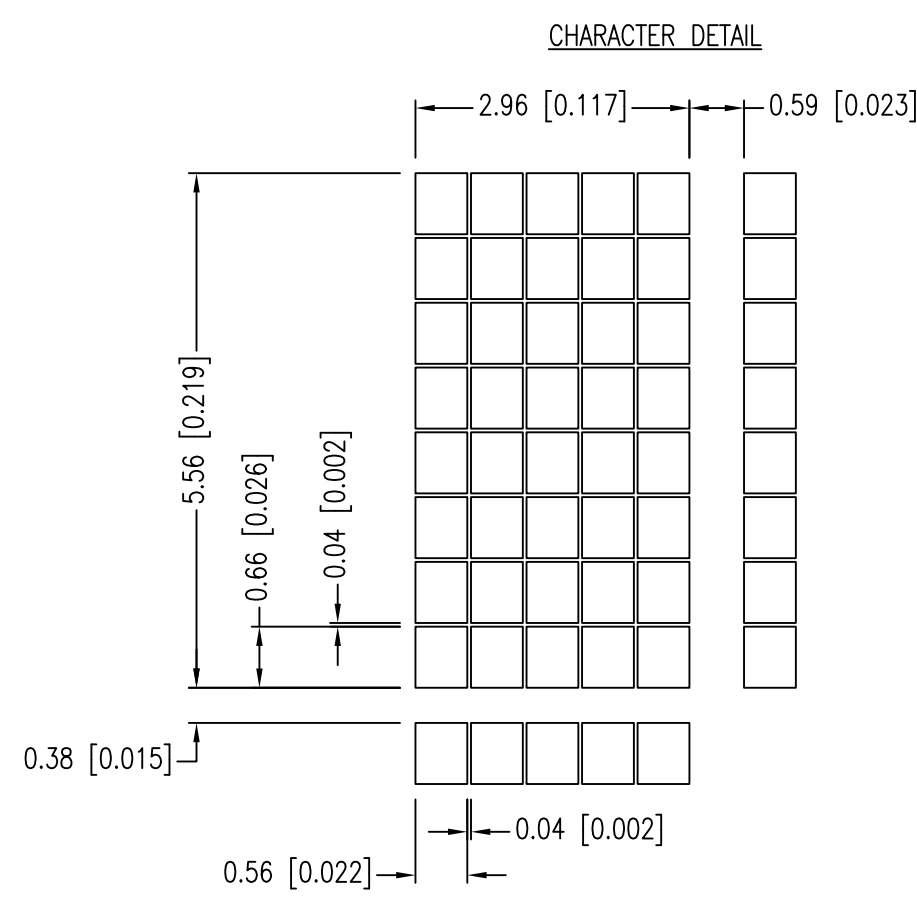
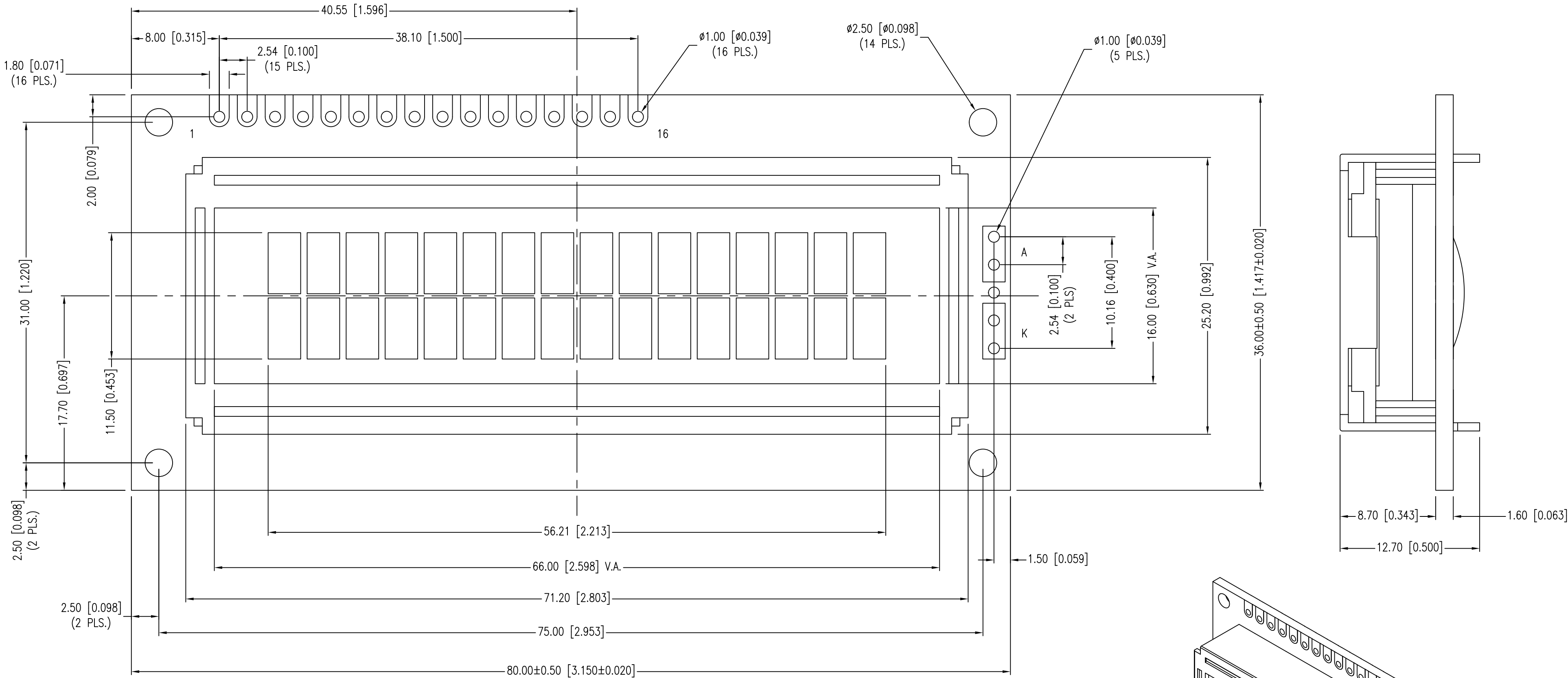


PART NUMBER	LCM-S01602DSF/A	REV.	B
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
06.17.11	E.C.N. #10BRDR. & REDRAWN.		A
07.28.17	ECN-Lumex201700038		B



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

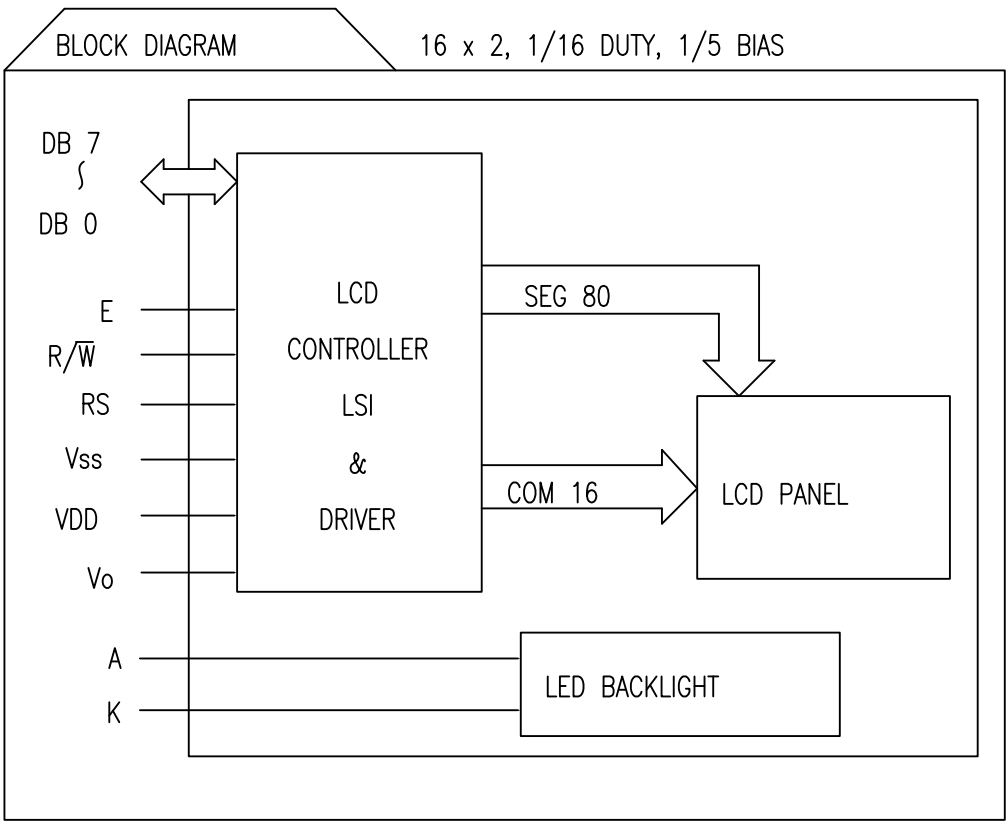
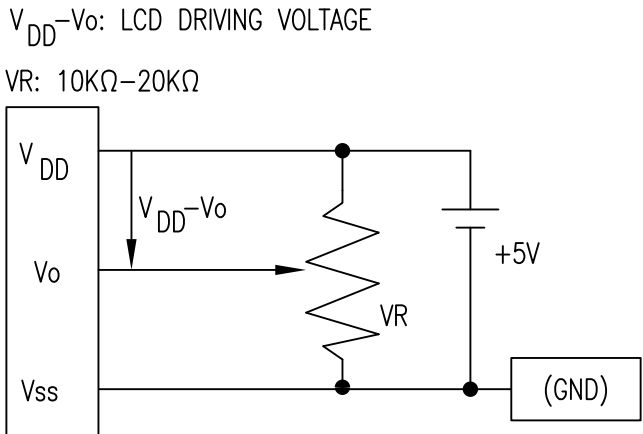
*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION -0.00 MAX= -DECIMAL PRECISION

 <i>Creating LED and LCD Solutions Together™</i>	425 N. GARY AVE CAROL STREAM, IL 60188 PHONE: 800-278-5666 FAX: 630-315-2150 WEB: WWW.LUMEX.COM	5.56mm CHAR HEIGHT, 5x8 DOT MATRIX, STN, TRANSFLECTIVE W/LED BACKLIGHT, 16x2 LCD, 1/16 DUTY, 1/5 BIAS.	DATE: 07.28.17		DRAWN BY: E.C.	
		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.	PAGE: 1 OF 2		CHKD BY: R.C.	
			SCALE: NTS		APRVD BY: G.Y.	
			UNIT: mm [INCH]			

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PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	VSS	—	POWER SUPPLY
2	VDD	—	
3	VO	—	
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
16	K	—	CATHODE



ELECTRICAL CHARACTERISTICS				VDD=4.7V to 5.3V, Ta=25°C			
ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC		VDD–VSS	—	—	5.0	—	V
SUPPLY CURRENT FOR LOGIC		IDD	VDD=5V	—	2.0	3.0	mA
INPUT VOLTAGE	HIGH	VIH	—	2.2	—	VDD	V
	LOW	VIL	—	0	—	0.6	V
OUTPUT VOLTAGE	HIGH	VOH	—	2.4	—	—	V
	LOW	VOL	—	—	—	0.4	V
LED BACKLIGHT*	VOLTAGE	Vf	If=160mA	—	4.2	4.6	V
	CURRENT	If	—	—	160	—	mA
	POWER CONSUMPTION	PD	—	—	656	—	mW
	LUMINOUS	L	If=160mA	70	—	—	cd/m ²
	COLOR	—	—	—	—	—	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
SUPPLY VOLTAGE FOR LOGIC	VDD–VSS	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	VDD–VO	—	4.3	4.6	V
INPUT VOLTAGE	VI	Ta=25°C	VSS	VDD	V
OPERATING TEMPERATURE	Topr	LCM–S	0	50	°C
STORAGE TEMPERATURE	Tstg	LCM–S	–20	70	°C

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