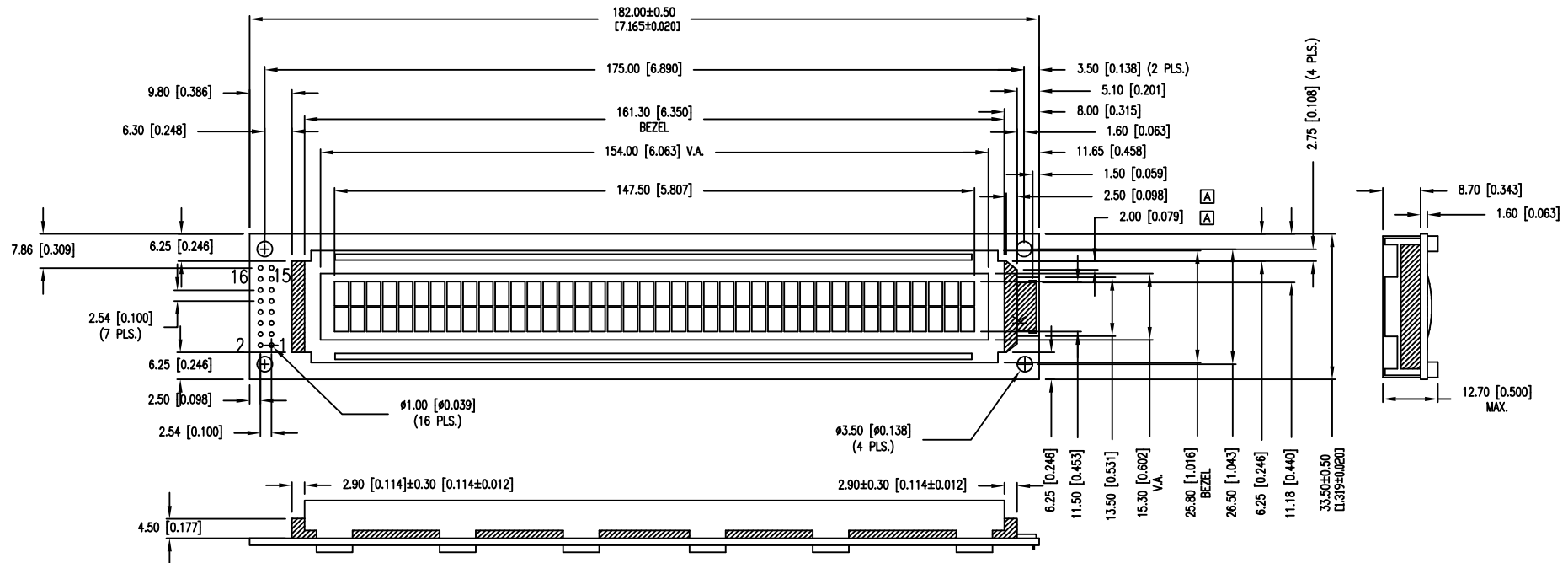
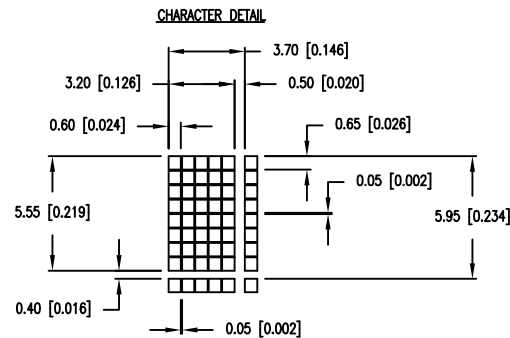


PART NUMBER	LCM-H04002DWN-1G	REV.	C
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
07.15.09	E.C.N. #11577.		A
10.02.03	E.C.N. #11587.		B
05.23.16	ECN-Lumex201600010		C

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.= +0.00 -DECIMAL PRECISION



425 N. GARY AVE.
CAROL STREAM, IL 60188
PHONE: 800-278-5666
FAX: 630-315-2152
WEB: WWW.LUMEX.COM

40 x 2 LCD CHARACTER MODULE, FSTN BLCK, NEGATIVE IMAGE, 525nm GREEN LED BACKLIGHT.

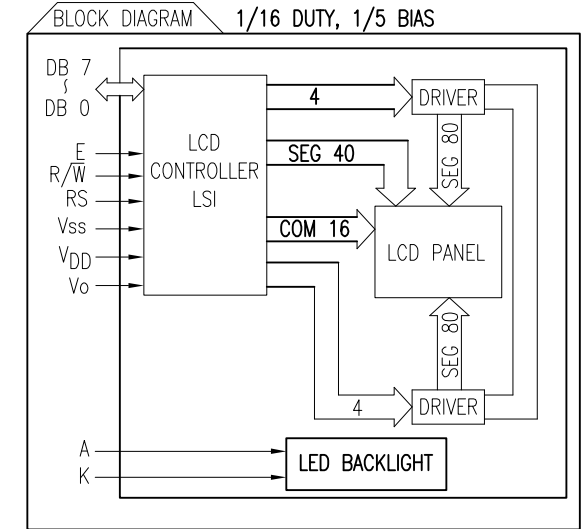
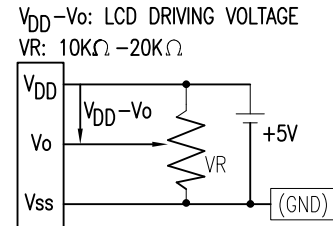
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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DATE:	05.23.16	DRAWN BY:	E.C.
PAGE:	1 OF 2	CHKD BY:	G.Y.
SCALE:	N/A	APRVD BY:	Ray
UNIT:	mm [INCH]		Ⓢ

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PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
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	3.2V	ANODE	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT



ELECTRICAL CHARACTERISTICS		$V_{DD}=4.7V$ to $5.3V$, $T_A=25^{\circ}C$				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{ss}$	—	4.5	5.0	5.5	V
SUPPLY CURRENT FOR LOGIC	I_{DD}	$V_{DD}=5V$	—	3.0	5.0	mA
INPUT VOLTAGE	HIGH LOW	V_{IH}	—	0.7 V_{DD}	—	V_{DD} V
		V_{IL}	—	-0.3	—	0.6 V
LCD MODULE DRIVING VOLTAGE	$V_{DD}-V_O$	—	4.2	4.5	4.8	V
LED BACKLIGHT	VOLTAGE	V_f	If=60mA	—	3.2	3.4 V
	REVERSE CURRENT	I_r	$V_r=5V$	—	—	0.2 mA
	POWER CONSUMPTION	PD	—	—	192	204 mW
	LUMINOUS	L	If=60mA	100	120	— cd/m
	COLOR	—	If=60mA	520	525	530 nm ²

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	$V_{DD}-V_{ss}$	$T_a=25^{\circ}C$	-0.3	7	V
SUPPLY VOLTAGE FOR LCD DRIVE	$V_{DD}-V_o$	—	-0.3	10	V
INPUT VOLTAGE	V_I	$T_a=25^{\circ}C$	-0.3	V_{DD}	V
OPERATING TEMPERATURE	T_{opr}	LCM-H	-20	70	$^{\circ}C$
STORAGE TEMPERATURE	T_{stg}	LCM-H	-30	80	$^{\circ}C$

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				UNIT: mm [INCH]	Ⓟ

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[LCM-H04002DWN-1G](#)