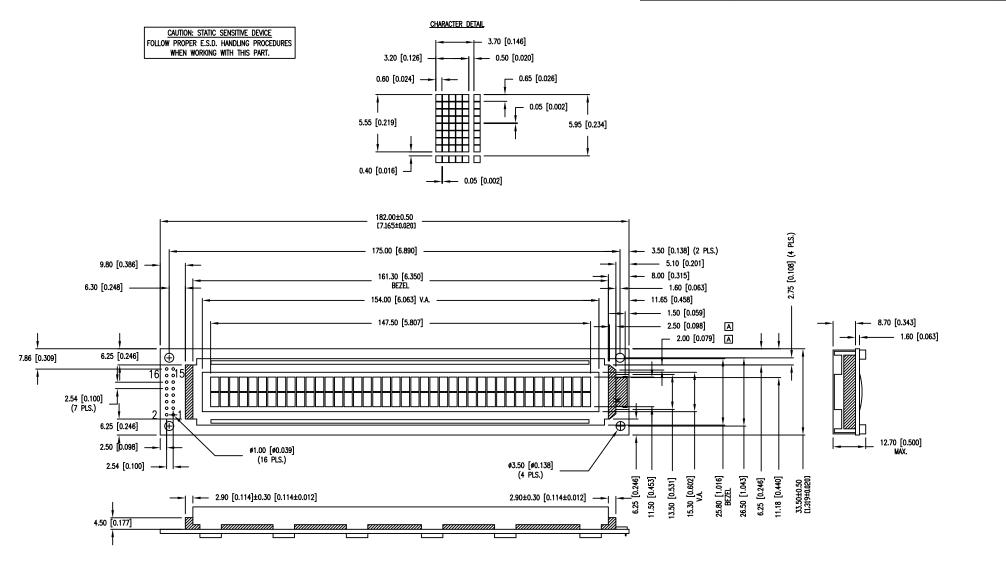
PART NUMBER	LCM-H04002DWN-1G	REV.	С
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
07.15.09	E.C.N. #11577.		Α
10.02.03	E.C.N. #11587.		В
05.23.16	ECN-Lumex201600010		С

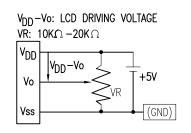


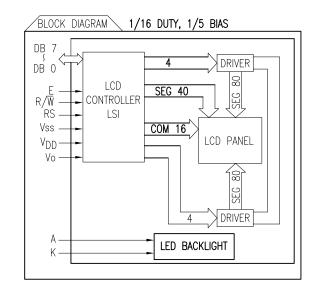
\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX.= +0.00

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		**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**	PAGE:	1 OF 2	CHKD BY:	G.Y.
			SCALE:	N/A	APRVD BY:	Ray
Creating LED and LCD Solutions Together™			UNIT:	mm [INCH]	Ŕ	

PART NUMBER	LCM-H04002DWN-1G	REV.	С
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
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05.23.16	ECN-Lumex201600010		С

PIN	CONFIGUR	ATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION			
1	Vss	-		GND (OV)		
2	V <sub>DD</sub>	-	POWER SUPPLY	5V		
3	Vo	-		FOR LCD DRIVE		
			REGISTER SELECT SIGNAL			
4	RS	H/L	H: DATA INPUT			
			L: INSTRUCTION INPUT			
5	R/W	H/L	H: DATA READ (MODU	LE>MPU)		
J	Γ\/ W	Π/L	L: DATA WRITE (MODU	JLE <mpu)< td=""></mpu)<>		
6	E	H,H–>L	ENABLE			
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.		
15	А	3.2V	ANODE	LED BACKLIGHT		
16	K	_	CATHODE	LED BACKLIGHT		





ITEM	CVUDOI	TEST	STANDAR	D VALUE	UNIT
ITEM	SYMBOL	CONDITION	MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	-0.3	7	٧
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-Vo	-	-0.3	10	۷
INPUT VOLTAGE	٧I	Ta=25°C	-0.3	V <sub>DD</sub>	V
OPERATING TEMPERATURE	Topr	LCM-H	-20	70	•C
STORAGE TEMPERATURE	Tstg	LCM-H	-30	80	•C

*UNLE	SS OTHERWISE SPECIFIED TOLERANCES PER D	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 (	$\pm 0.030$ ). MIN= $\begin{array}{c} + DECIMAL \\ -0.00 \end{array}$ PRECISION	Max.= +0.00 -Decimal precision
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UNIT

V

mА

V

V

V

V

mА

mW

cd/m

nm 2

525

520

lf=60mA

530

e 425	® 425 N. GARY AVE.	40 x 2 LCD CHARACTER MODULE, FSTN BLCK, NEGATIVE IMAGE, 525nm GREEN LED BACKLIGHT.	DATE:	05.23.16	DRAWN BY:	E.C.
	AROL STREAM, IL 60188 HONF: 800-278-5666	**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**	PAGE:	1 OF 2	CHKD BY:	G.Y.
	FAX: 630-315-2152 WEB: WWW.LUMEX.COM	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	SCALE:	N/A	APRVD BY:	Ray
WE			UNIT:	mm [INCH]	R	

PIN NO.	SYMBOL	LEVEL	FUNCTION		
		LLVLL	TONCTION		
1	Vss	-		GND (OV)	
2	V <sub>DD</sub>	-	POWER SUPPLY	5V	
3	Vo	-		FOR LCD DRIVE	
			REGISTER SELECT SIG	NAL	
4	RS	H/L	H: DATA INPUT L: INSTRUCTION INPUT		
E		11./1	H: DATA READ (MODULE>MPU)		
5	R/W	H/L	L: DATA WRITE (MODU	ILE <mpu)< td=""></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, TA=25°C									
	ITEM			SYMBOL	CONDITION		DARD V		
		11 - 19			o o libilion	MIN.	TYP.	MAX.	
	SUPPLY VOLTAGE FOR LOGIC			V <sub>DD</sub> -Vss	-	4.5	5.0	5.5	
	SUPPLY CURRENT FOR LOGIC			I <sub>DD</sub>	V <sub>DD</sub> =5V	-	3.0	5.0	
	INPUT VOLTAGE HIGH LOW		HIGH	VIH	-	0.7V <sub>DD</sub>	-	V <sub>DD</sub>	
			LOW	VIL	-	-0.3	-	0.6	
	LCD MOUDULE DRIVING VOLTAGE			V <sub>DD</sub> -V <sub>O</sub>	_	4.2	4.5	4.8	
		VOLTAGE REVERSE CURRENT POWER CUNSUMPTION		Vf	lf=60mA	-	3.2	3.4	
	l FD			lr	Vr=5V	-	-	0.2	
	BACKLIGHT			PD	-	-	192	204	
	DACKLIGHT	LUMINOUS		L	lf=60mA	100	120	-	

COLOR

Creating

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