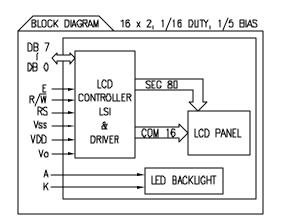


## UNCONTROLLED DOCUMENT

PART NUMBER					
LCM-X01602DXX/C					
REV.	E.C.N. NUMBER AND REVISION COMMENTS	D/	<b>ATE</b>		
	SEE PAGE #1./				

PIN	CONFIGURA	NOITA													
PIN NO.	SYMBOL	LEVEL	FUNCTION												
1	VDD	_		5V											
2	V55	_	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	POWER SUPPLY GND (OV)	GND (OV)
3	Va	-		FOR LCD DRIVE											
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT												
			L: INSTRUCTION INPUT	Г											
5	R∕W	11./1	H: DATA READ (MODULE>MPU)												
J	K/W	H/L	L: DATA WRITE (MØDU	JLE <mpu)< td=""></mpu)<>											
Б	Е	H,H->L	ENABLE												
7~14	DB0~DB7	H/I	DATA BUS-SOFTWARE	SFIFCTABLE 4 OR 8 BIT MODE.											

	·Vo: LCD DRIVING VOLTAGE 10ΚΩ –20ΚΩ
$V_{DD}$	V <sub>DD</sub> -V <sub>D</sub>
Va	VR T+5V
Vss	(GND)



ELECTRICAL CHARACTERISTICS V <sub>DD</sub> =4.7V to 5.3V, T <sub>A</sub> =25°C								
ITEM			SYMBOL	CONDITION	STANDARD VALUE			UNIT
IIIEM			2 IMIDUL		MIN.	TYP.	MAX.	UNII
SUPPLY VO	LTAGE FOR	LOGIC	V <sub>DD</sub> -V9\$	1	ı	5.0	ı	V
SUPPLY CL	irrent for	LOGIC	_DD	۷ <sub>DD</sub> =5۷	ı	2.0	3.0	mA
INPUT VOLTAGE HIGH LOW		٧ <sub>IH</sub>	1	2.2	1	۷DD	V	
		٧ <sub>IL</sub>	1	0	1	0.6	V	
	HIGH		VOH	-	2.4	-	-	V
OUTPUT VOLTAGE LOW		VOL	=	-	-	0.4	V	
	VOLTAGE CURRENT		Vf	lf=160mA	-	4.2	4.6	V
*LED BACKLIGHT			lf	-	-	160	-	mA
	POWER CUNSUMPTION		PD	-	-	656	-	mW
	LUMINOUS		Ĺ	lf=160mA	70	_	-	cd/m <sup>2</sup>
	COLOR		1	_	-	-	_	nm

*ONLY	APPL	IES	то	MODULES	WITH	BACKLIGHT	

/ ABSULUTE MAXIMUM RATINGS \	\				
ITEM	SYMBOL	TEST	STANDAR	D VALUE	UNIT
III LM	SIMBAL	CONDITION	MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD -Vss	Ta=25°C	4.7	5.3	٧
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-V0	-	4.2 <b>Φ</b> 50°C	4.8 <b>0</b> 0°C	٧
INPUT VOLTAGE	٧١	Ta=25°C	Vss	$V_{DD}$	٧
OPERATING TEMPERATURE	T	LCM-S	0	50	Ç
OFERALING TEMPERATURE	Торг	LCM-H	-20	70	C
STORAGE TEMPERATURE	T_1 _	LCM-S	-20	70	C
SIDNAGE IEWIFEKATURE	Tstg	LCM-H	-30	85	C

PART NUMBER

A LCM-X01602DXX/C

5.56mm CHARACTER HEIGHT, 5  $\times$  8 DOT MATRIX, 16  $\times$  2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.

CONFDENTIAL NERSHAFIDM

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CONTINUED HEREN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR
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<u>reliability note</u> By years of experience data .

DUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

LUMEX	
INCORPORATED \	

SA/BC

ADSSULTE MANUALLA DATINOS

290 E. HELLEN ROAD
PALATINE, ILLINDIS 60067
PHONE: 1-847-359-2790
WEB: HTTP://WWW.LUMEX.COM

DRAWN BY: CHECKED BY: APPROVED BY: DATE: 7-31-98
PAGE: 2 OF 2

\*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

SCALE: N/A

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LCM-S01602DTF/C