

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

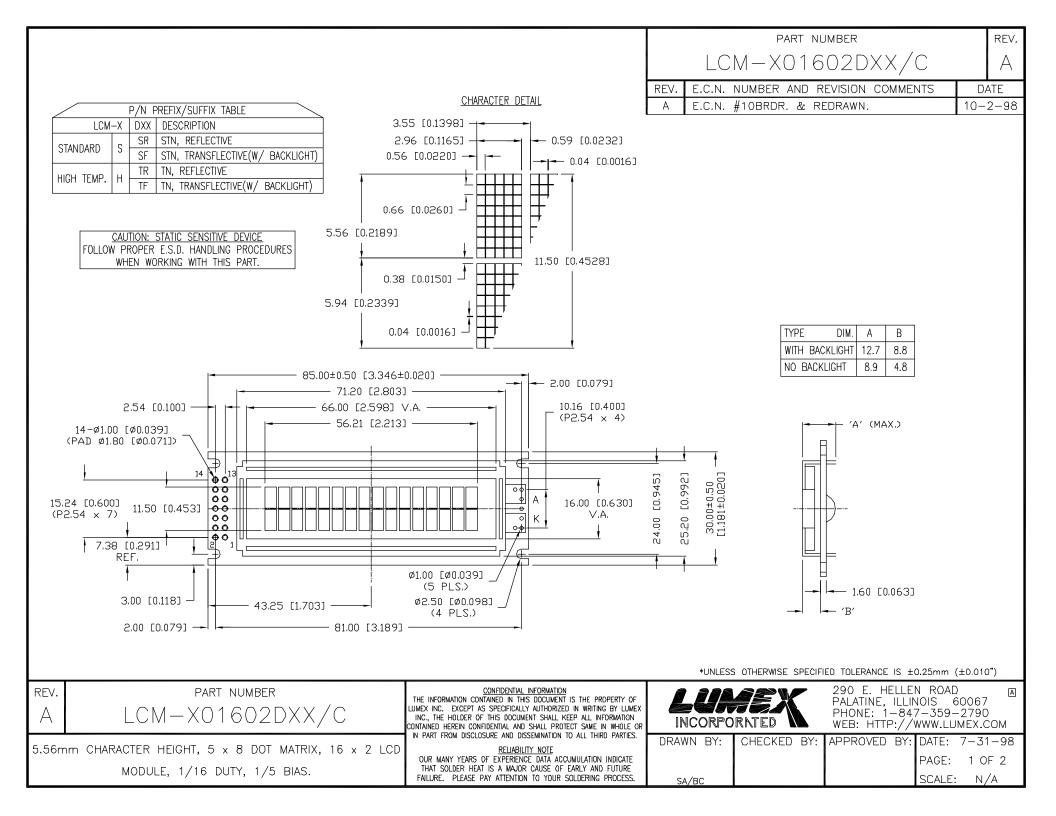
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







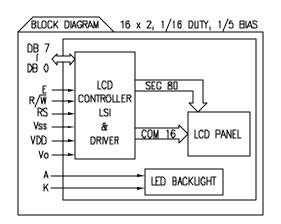


## UNCONTROLLED DOCUMENT

PART NUMBER				
LCM-X01602DXX/C				
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE		
	SEE PAGE #1./			

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

	Vo: LCD DRIVING VOLTAGE ΙΟΚΩ —2ΟΚΩ
$V_{DD}$	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					MIN.	TYP.	MAX.	UNII
SUPPLY VO	LTAGE FOR	LOGIC	V <sub>DD</sub> -Vas	_	1	5.0	1	V
SUPPLY CU	RRENT FOR	LOGIC	_DD	۷ <sub>DD</sub> =5۷	1	2.0	3.0	mΑ
INPUT VOLTAGE HIGH LOW		٧ <sub>IH</sub>	_	2.2	1	۷dd	٧	
		٧ <sub>IL</sub>	_	0	1	0.6	٧	
OUTPUT VOLTAGE HIGH LOW		VOH	-	2.4	-	1	٧	
		V <sub>OL</sub>	_	_	_	0.4	V	
	VOLTAGE		Vf	lf=160mA	-	4.2	4.6	V
*LED BACKLIGHT	CURRENT		lf	-	-	160	-	mΑ
	POWER CUNSUMPTION		PD	-	-	656	-	mW
	LUMINOUS		Ĺ	lf=160mA	70	_	-	cd/m²
	COLOR	•	_	_	_	_	_	nm

*ONLY	APPLIES	TO	MODULES	WITH	BACKLIGHT

ABSOLUTE MAXIMUM RATINGS \	\				
ITEM	SYMBOL	TEST	STANDAR	D VALUE	UNIT
III LM	31 MDGL	CONDITION	MIN	MAX	UNIT
SUPPLY VOLTAGE FOR LOGIC	VDD -Vss	Ta=25°C	4.7	5.3	٧
SUPPLY VOLTAGE FOR LCD DRIVE	VDD−0°	-	4.2 <b>Φ</b> 50°C	4.8 <b>@</b> 0°C	٧
INPUT VOLTAGE	٧١	Ta=25°C	Vss	$V_{DD}$	٧
OPERATING TEMPERATURE	Торг	LCM-S	0	50	ሪ
OFERALING TEMPERATURE		LCM-H	-20	70	C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	C
310NAGE IEMIFERATURE		LCM-H	-30	85	C

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

REV. PART NUMBER LCM-X01602DXX/C

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

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 sane in whole or IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

RELIABILITY NOTE

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 V	

SA/BC

ADSSULTE MANUALLA DATINOS

290 E. HELLEN ROAD PALATINE, ILLINOIS 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

SCALE: N/A