

*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.= ±0.000 + DECIMAL PRECISION MAX.= ±0.

AL PRECISION	UNCC	NTROLLED -	DOCUMENT	

_ L		· · · ·	7 C 7 C 7 C 7 OLOU -DECIMAL PRECISION	UNCONTOLL	
	290 E. HELEN ROAD	9.63mm CHARACTER HEIGHT, 16x2 CHARACTERS, 5x8 DOT MATRIX LCD MODULE, 1/16 DUTY, 1/5 BIAS.	DATE: 01.28.11	DRAWN BY: AB	
	LUIVIEN PHOI FAX:	PALATINE, IL 60067-6976 PHONE: +1.847.359.2790	**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT INPROVEMENT.**	PAGE: 1 OF 2	CHKD BY: YA
		FAX: +1.847.359.6538	CONFIDENTIAL INFORMATION	SCALE: NTS	APRVD BY: BC
		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 KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	UNIT: mm [INCH]	₽ ₽

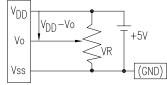
Downloaded from Arrow.com.

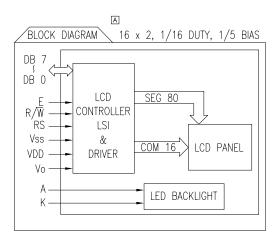
PART NUMBER	LCM-X01602DXX/D RE	EV.	А
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
10.09.98	E.C.N. #10464.		А

PIN CONFIGURATION

/		· · · · ·								
PIN NO.	SYMBOL	LEVEL	FUNCTION							
1	Vss	-	GND (OV)							
2	V _{DD}	-	POWER SUPPLY	5V						
3	Vo	-		FOR LCD DRIVE						
			REGISTER SELECT SIG	REGISTER SELECT SIGNAL						
4	RS	4 RS	H/L	H: DATA INPUT				H: DATA INPUT		
			L: INSTRUCTION INPUT	Γ						
5	R/W	H/L	H: DATA READ (MODULE>MPU)							
5	TX/W	пус	: DATA WRITE (MODULE <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	_	ANODE	LED BACKLIGHT						
16	К	_	CATHODE	LED BACKLIGHT						

 $V_{DD}-V_{0}:$ LCD DRIVING VOLTAGE VR: 10K Ω –20K Ω





ELECTRICAL CHARACTERISTICS \land V _{DD} =4.7V to 5.3V, T _A =25°C									
ITEM			SYMBOL	CONDITION	STANDARD VALUE				
IIEW				CONDITION	MIN.	TYP.	MAX.	UNIT	
SUPPLY VO	LTAGE FOR	LOGIC	V _{DD} -Vss	-	-	5.0	-	V	
SUPPLY CL	JRRENT FOR	LOGIC	I _{DD}	V _{DD} =5V	-	2.0	3.0	mA	
	INPUT VOLTAGE HIGH		V _{IH}	-	2.2	-	4.7	V	
INPUT VOLI			VIL	-	0	-	0.6	V	
	OUTPUT VOLTAGE HIGH		V _{OH}	-	2.4	-	-	V	
OUTPUT VO			V _{OL}	-	-	-	0.4	V	
	VOLTAGE		Vf	lf=220mA	-	4.2	4.6	V	
*LED	CURRENT		lf	-	-	220	480	mA	
BACKLIGHT	POWER CU	NSUMPTION	PD	-	-	924	-	mW	
	LUMINOUS		L	lf=220mA	70	-	-	cd/m²	
	COLOR		-	_	-	-	-	nm	

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS	\ \					
ITEM	SYMBOL	TEST	STANDARD VALUE		UNIT	
	STWDUL	CONDITION	MIN	MAX	UNIT	
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-No	-	4.2V@50°C	4.8@0°C	V	
INPUT VOLTAGE	Vr	Ta=25°C	Vss	V _{DD}	V	
OPERATING TEMPERATURE	Topr —	LCM-S	0	50	°C	
OFERATING TEMPERATORE		LCM-H	-20	70	°C	
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C	
STORAGE TEMPERATORE	isig	LCM-H	-30	85	°C	

*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 + DECIMAL PRECISION

PRECISION	UNCONTROLLE	ED DOCUMENT

PHONE: +1.847.35 FAX: +1.847.359.6	290 E. HELEN ROAD	9.63mm CHARACTER HEIGHT, 16x2 CHARACTERS, 5x8 DOT MATRIX LCD MODULE, 1/16 DUTY, 1/5 BIAS.	DATE:	01.28.11	DRAWN BY:	AB
	<i>'</i>		PAGE:	1 OF 2	CHKD BY:	YA
	FAX: +1.847.359.6538	CONFIDENTIAL INFORMATION		NTS	APRVD BY:	BC
Creating LED and LCD Solutions Together™ WEB: WWW.LUME		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.	UNIT:	mm [INCH]	R	

Downloaded from Arrow.com.