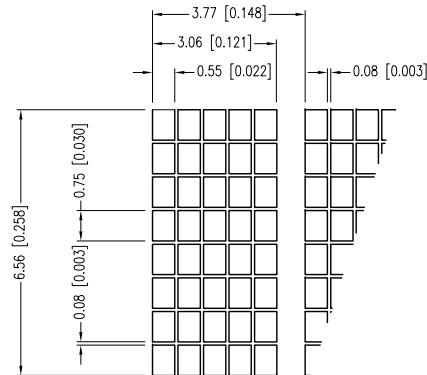


PART NUMBER	LCM-X01601DXX/B-Y	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
01.22.13	E.C.N. #10BRDR. & REDRAWN.		A

A

CHARACTER DETAIL

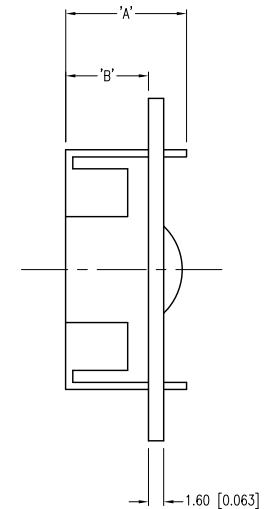
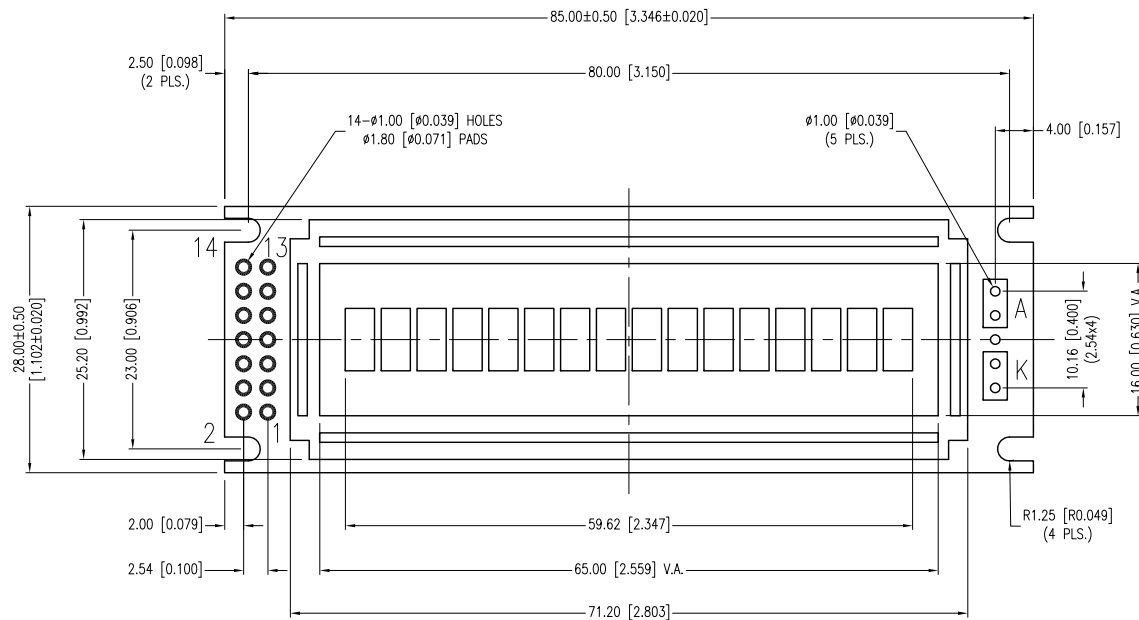


P/N PREFIX/SUFFIX TABLE

LCM-X	DX/B-Y	DESCRIPTION
STANDARD	SR/B-Y	STN-YELLOW BACKGROUND, REFLECTIVE
	SF/B-Y	STN-YELLOW BKGND, TRANSLFLECTIVE (W/BKLT)
HIGH TEMP	TR/B-Y	TN-YELLOW BACKGROUND, REFLECTIVE
	TF/B-Y	TN-YELLOW BKGND, TRANSLFLECTIVE (W/BKLT)

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

TYPE	DIM.	A	B
WITH BACKLIGHT	12.7	8.7	
NO BACKLIGHT	8.8	4.8	



*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}

UNCONTROLLED DOCUMENT

6.56mm CHARACTER HEIGHT, 5x8 DOT MATRIX, 16x1 CHARACTER LCD MODULE, 1/16 DUTY, 1/5 BIAS, YELLOW BACKGROUND.

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

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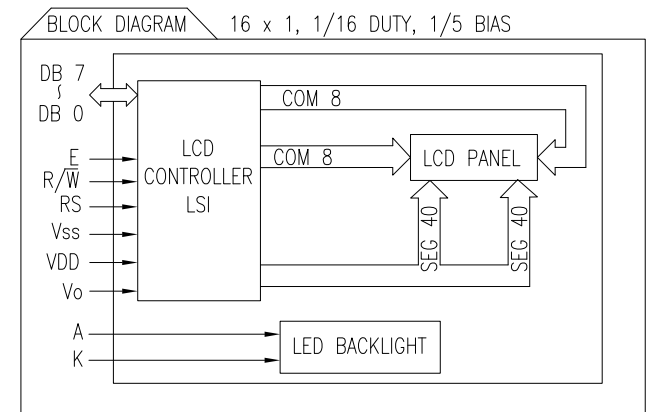
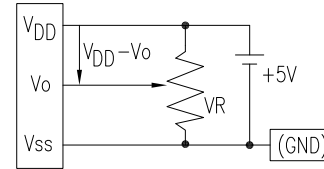
DATE:	01.22.13	DRAWN BY:	MA
PAGE:	1 OF 2	CHKD BY:	SS
SCALE:	NTS	APRVD BY:	SS
UNIT:	mm [INCH]		(Pb)

PART NUMBER	LCM-X01601DXX/B-Y	REV.	A
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
01.22.13	E.C.N. #10BRDR. & REDRAWN.		A

A

PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	Vss	-	POWER SUPPLY
2	V _{DD}	-	
3	Vo	-	
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.
A	-	-	ANODE
K	-	-	CATHODE

V_{DD}-Vo: LCD DRIVING VOLTAGE
VR: 10KΩ-20KΩ



ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	-	MIN.	TYP.	MAX.	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	1.6	2.5	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	V _{DD}
	LOW	V _{IL}	-	0	-	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	-	2.4	-	-
	LOW	V _{OL}	-	-	-	0.4
*LED BACKLIGHT	VOLTAGE	V _f	I _f =150mA	-	4.2	4.6
	CURRENT	I _f	-	-	150	200
	POWER CONSUMPTION	PD	-	-	630	-
	LUMINOUS	L	I _f =150mA	70	-	-
	COLOR	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -Vss	Ta=25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -Vo	-	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V _I	Ta=25°C	Vss	V _{DD}	V
OPERATING TEMPERATURE	Topr	LCM-S	0	50	°C
		LCM-H	-20	70	°C
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

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UNCONTROLLED DOCUMENT

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PAGE:	2 OF 2	CHKD BY:	SS
SCALE:	NTS	APRVD BY:	SS
UNIT:	mm [INCH]		Ⓢ