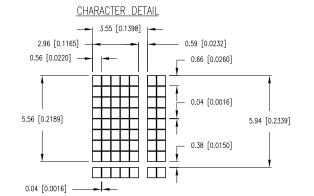


PART NUMBER	LCM-X01602DXX/F	REV.	С	
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.	
07.06.98	E.C.N. #10440.			
09.03.98	E.C.N. #10BRDR. & REDRAWN.		В	
07.27.12	E.C.N. #10BRDR.		С	

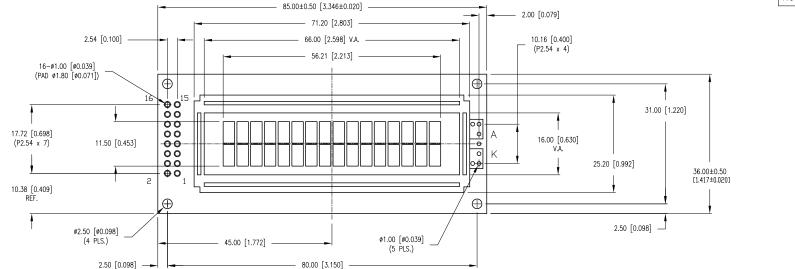
			P/N F	PREFIX/SUFFIX TABLE
	LCM	-Х	DXX	DESCRIPTION
	STANDARD	c	SR	STN, REFLECTIVE
		3	SF	STN, TRANSFLECTIVE(W/ BACKLIGHT)
	HIGH TEMP.		TR	TN, REFLECTIVE
			TF	TN, TRANSFLECTIVE(W/ BACKLIGHT)

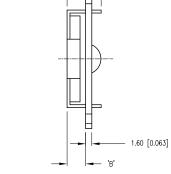
	CAUTION	V: STATIC	SENSITIVE	DEVICE
FOLLOW	/ PROP	ER E.S.D.	HANDLING	PROCEDURES
	WHEN	WORKING	WITH THIS	PART.



TYPE D	DIM.	А	В
WITH BACKLIC	GHT	12.7	9.0
NO BACKLIGH	IT	8.8	4.8

'A' (MAX.)





*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= +0.000 -0.000 MAX.= +0.000 MAX.= +0.

	290 E. HELEN ROAD PALATINE, IL 60067—6976	INFOVUE 5.56 CHAR HGT, 5x8 DOT MATRIX, 16x2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.	DATE: PAGE:	07.27.12	DRAWN BY:	AB
	PHONE: +1.847.359.2790 FAX: +1.847.359.6538 WEB: WWW.LUMEX.COM	**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.** CONFIDENTIAL INFORMATION	SCALE:	NTS	APRVD BY:	SS
Creating LED and LCD Solutions Together™	MEMBER OF ITW PHOTONICS GROUP	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	

Ι	PART NUMBER	LCM-X01602DXX/F rev		С	
I	DATE E.C.N. NUMBER AND REVISION COMMENTS				
	07.06.98	E.C.N. #10440.		A	
	09.03.98	E.C.N. #10BRDR. & REDRAWN.		В	
	07.27.12	E.C.N. #10BRDR.		С	

PIN CONFIGURATION

ELECTRICAL CHARACTERISTICS

SUPPLY VOLTAGE FOR LOGIC

SUPPLY CURRENT FOR LOGIC

VOLTAGE

CURRENT

LUMINOUS

COLOR

INPUT VOLTAGE

OUTPUT VOLTAGE

ITEM

*LED

BACKLIGHT

PIN NO.	SYMBOL	LEVEL	FUNCTION		
1	Vss	-	GND (OV) POWER SUPPLY 5V		
2	V _{DD}	-			
3	Vo	-	FOR LCD DRIVE		
			REGISTER SELECT SIGNAL		
4	RS	H/L	H: DATA INPUT		
			L: INSTRUCTION INPU	Г	
5	R/W	ц /і	H: DATA READ (MODULE>MPU) L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>		
	Γ/ W	H/L			
6	E	H,H–>L	ENABLE		
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.	
15	A	_	ANODE	LED BACKLIGHT	
16	K	-	CATHODE	LED BACKLIGHT	

SYMBOL

V_{DD}-Vss

1_{DD}

۷_{IH}

VII

VOH

VOL

Vf

lf

PD

_

 V_{DD} =4.7V to 5.3V, T_A=25°C

CONDITION

_

_

—

_

lf=160mA

_

_

lf=160mA

_

STANDARD VALUE

TYP.

5.0

2.0

_

_

_

_

4.2

160

656

_

_

MAX.

_

3.0

VDD

0.6

_

0.4

4.6

_

_

_

_

MIN.

_

_

2.2

0

2.4

_

_

_

_

70

_

UNIT

V

mΑ

V

V

V

V

V

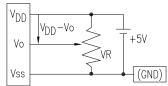
mΑ

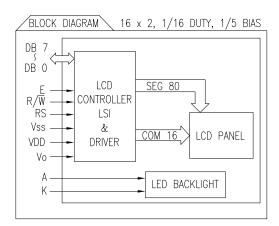
mW

cd/m²

nm

 V_{DD} – Vo: LCD DRIVING VOLTAGE VR: 10K Ω – 20K Ω





ITFM	CVALIDOL	TEST	STANDAR	UNIT		
	SYMBOL	CONDITION	DITION MIN MA			
SUPPLY VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	V	
SUPPLY VOLTAGE FOR LCD DRIVE	VDD-No	-	4.2@50°C	4.8@0°C	V	
INPUT VOLTAGE	VI	Ta=25°C	Vss	V _{DD}	V	
OPERATING TEMPERATURE	Topr	LCM-S	0	50	°C	
OF LIVE TENE CRATURE	Topr	LCM-H	-20	70	°C	
STORAGE TEMPERATURE	Tota	LCM-S	-20	70	°C	
STURAGE LEWIFERATURE	Tstg	LCM-H	-30	85	°C	

*ONLY APPLIES TO MODULES WITH BACKLIGHT

POWER CUNSUMPTION

HIGH

LOW

HIGH

LOW

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