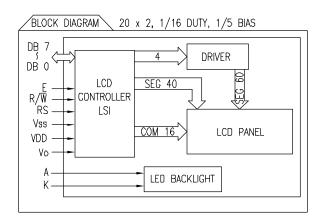


## LCM-H02002DWF-W

PIN CONFIGURATION							
PIN NO.	SYMBOL	LEVEL	FUNCTION				
1	Vss	_		GND (OV)			
2	$V_{\mathrm{DD}}$	_	POWER SUPPLY	5V			
3	Vo	_		FOR LCD DRIVE			
	RS	H/L	REGISTER SELECT SIGNAL				
4			H: DATA INPUT				
			L: INSTRUCTION INPUT				
5	R/W	H/L	H: DATA READ (MODULE>MPU)				
			L: DATA WRITE (MODULE <mpu)< td=""></mpu)<>				
6	Е	H,H->L	ENABLE				
7~14	DB0~DB7	H/L	DATA BUS-SOFTWARE	SELECTABLE 4 OR 8 BIT MODE.			
15	А	3.4V	ANODE	LED BACKLIGHT			
16	K	GND	CATHODE	LED BACKLIGHT			

 $V_{DD}$  -Vo: LCD DRIVING VOLTAGE VR:  $10 \text{K}\Omega$  -  $20 \text{K}\Omega$   $V_{DD}$  -Vo Vss  $V_{R}$  -  $V_{R}$ 



ELECTRICAL CHARACTERISTICS  $V_{DD}$ =4.7V to 5.3V, T<sub>A</sub>=25°C

ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT	
IIEM				MIN.	TYP.	MAX.	UNII	
SUPPLY VOLTAGE FOR LOGIC			V <sub>DD</sub> -Vss	_	-	5.0	1	٧
SUPPLY CURRENT FOR LOGIC			IDD	V <sub>DD</sub> =5V	-	2.0	3.0	mA
INPUT VOLTAGE HIGH LOW		٧ <sub>IH</sub>	-	2.2	-	۷DD	٧	
		۷ <sub>IL</sub>	-	0	-	0.6	٧	
OUTPUT VOLTAGE HIGH LOW		V <sub>OH</sub>	_	2.4	-	-	٧	
		LOW	V <sub>OL</sub>	_	-	-	0.4	٧
LED BACKLIGHT	VOLTAGE		Vf	If=40mA	_	3.4	3.6	٧
	CURRENT		lf	_	-	40	50	mΑ
	POWER CUNSUMPTION		PD	-	_	136	180	mW
	LUMINOUS		L	If=40mA	60	100	ı	cd/m²
	COLOR		_	_	_	WHITE	_	_

## / ABSOLUTE MAXIMUM RATINGS`

		\				
ITEM		SYMBOL	TEST	STANDAR	UNIT	
			CONDITION	MIN	MAX	OINII
SUPPI	Y VOLTAGE FOR LOGIC	VDD-Vss	Ta=25°C	4.7	5.3	٧
SUPPI	Y VOLTAGE FOR LCD DRIVE	VDD-No	-	4.2@50°C	4.8@0°C	٧
INPUT	VOLTAGE	٧ <sub>I</sub>	Ta=25*C	Vss	V DD	٧
OPER/	ATING TEMPERATURE	Topr	-	-20	70	.C
STORA	GE TEMPERATURE	Tstg	_	-30	80	,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 PRECISIO

REV.

## PART NUMBER LCM-H02002DWF-W

20 x 2 CHARACTER MODULE, 5 x 8 DOT MATRIX, FSTN TRANSFLECTIVE, WHITE LED BACKLIGHT, -20°C TO 70°C OPERATING TEMPERATURE, 6:00 VIEW.

CONFIDENTIAL INFORMATION
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF

LINE 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.

<u>RELIABILITY NOTE</u>

OUR 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.



290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790

US WEB: www.lumex.com.tw

CHECKED BY: APPROVED BY: DATE: 11.19.08
PAGE: 2 OF 2
SCALE: N/A

JN

DRAWN BY:

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Lumex:

LCM-H02002DWF-W