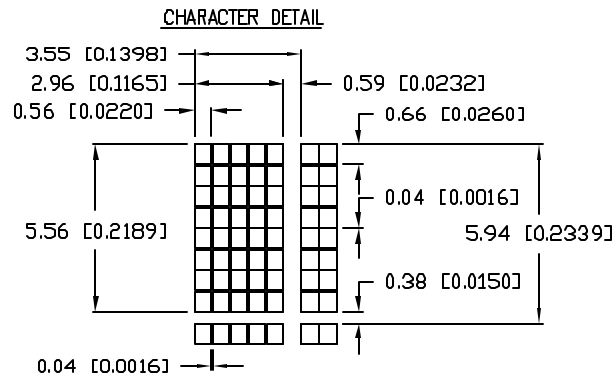
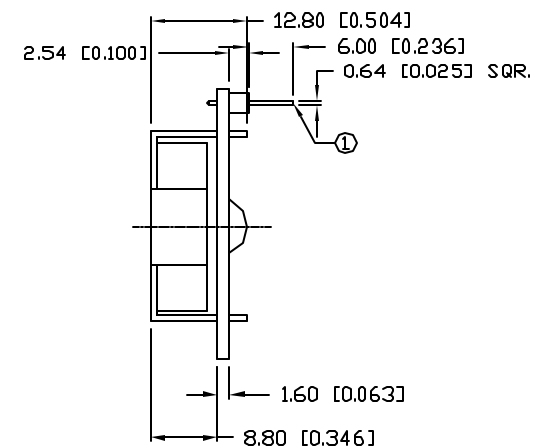
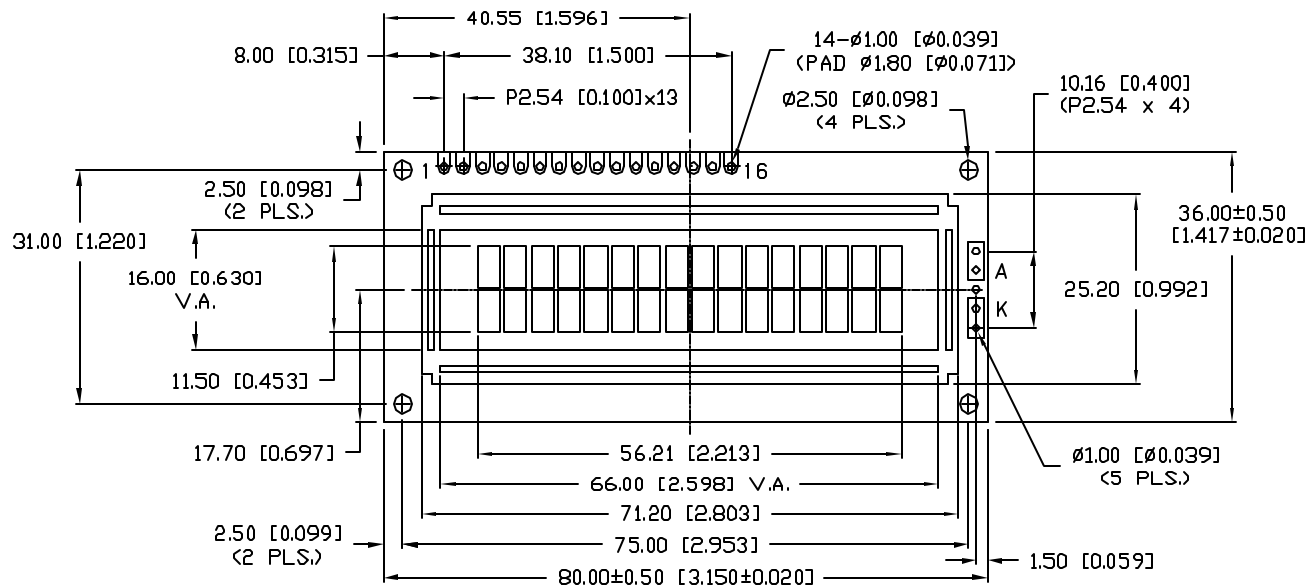


CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.



NOTE:

1. 14 PIN GOLD PLATED HEADER
HOLE 15 & 16 LEFT OPEN.



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

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX
16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.
STN, TRANSFLECTIVE, 14 PIN HEADER, R9=24ohms.

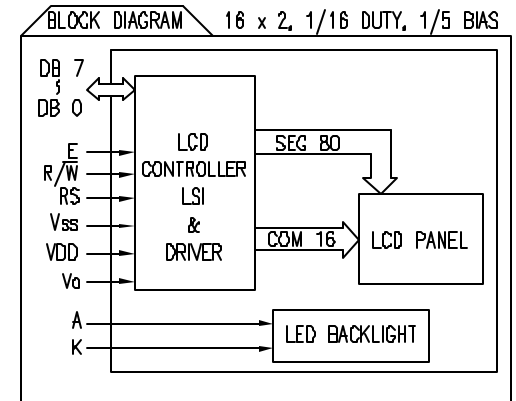
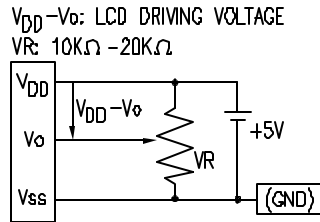
CONFIDENTIAL INFORMATION
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RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

LUMEX
INCORPORATED

290 E. HELLEN ROAD
PALATINE, ILLINOIS 60067
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WEB: HTTP://WWW.LUMEX.COM

PIN CONFIGURATION					
PIN NO.	SYMBOL	LEVEL	FUNCTION		
1	V _{SS}	—	POWER SUPPLY	GND (0V)	
2	V _{DD}	—		5V	
3	V _O	—		FOR LCD DRIVE	
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.		
15	A	—	ANODE	LED BACKLIGHT	
16	K	—	CATHODE	LED BACKLIGHT	



- NOTE:
1. R9=24Ω, J2=OPEN
 2. R1=R2=R4=R5=7.5KΩ

ELECTRICAL CHARACTERISTICS		V _{DD} =4.7V to 5.3V, T _A =25°C				
ITEM		SYMBOL	CONDITION	STANDARD VALUE		
				MIN.	TYP.	MAX.
SUPPLY VOLTAGE FOR LOGIC		V _{DD} -V _{SS}	—	—	5.0	—
SUPPLY CURRENT FOR LOGIC		I _{DD}	V _{DD} =5V	—	2.0	3.0
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 =160mA	—	4.2	4.6
	CURRENT	I _F	—	—	160	—
	POWER CONSUMPTION	P _D	—	—	656	—
	LUMINOUS	L	I _F =160mA	70	—	—
	COLOR	—	—	—	—	—

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS					
ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	T _a =25°C	4.7	5.3	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	—	4.2@50°C	4.8@0°C	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{SS}	V _{DD}	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	0	50	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70	°C

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

5.56mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX,
16 x 2 LCD MODULE, 1/16 DUTY, 1/5 BIAS.
STN, TRANSFLECTIVE, 14 PIN HEADER, R9= 24ohms.