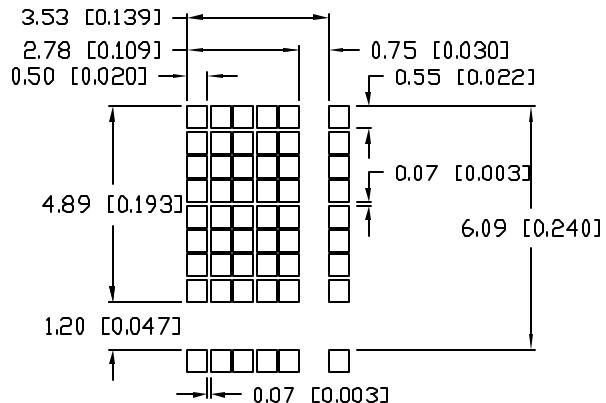
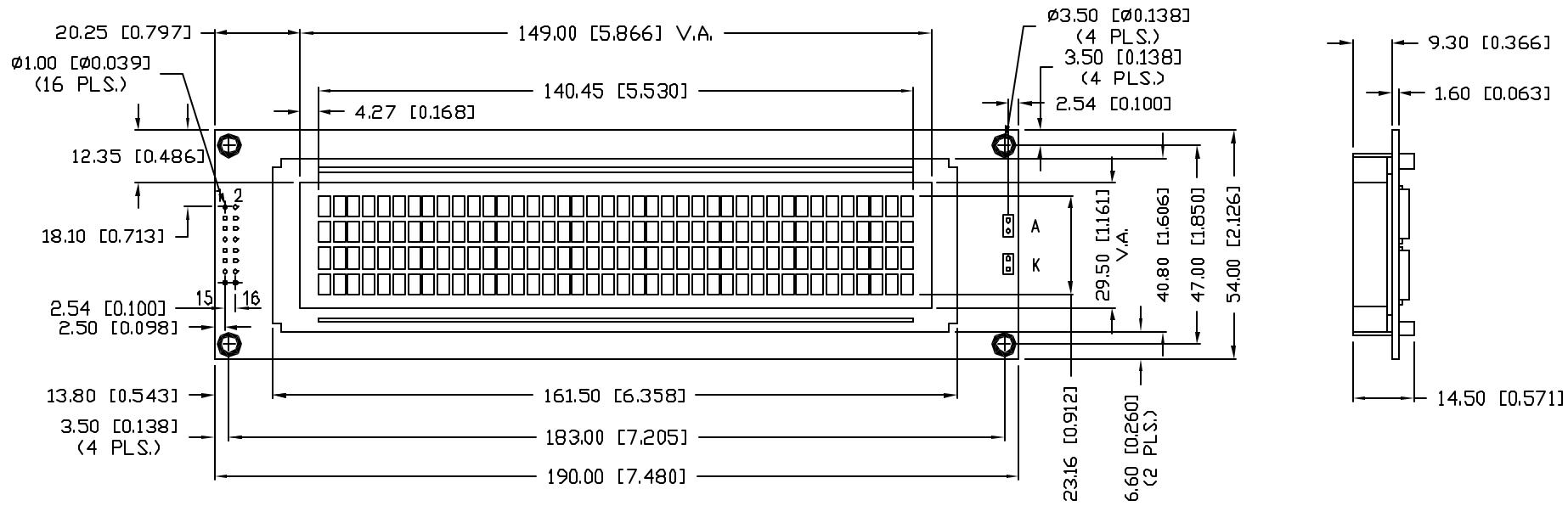


CHARACTER DETAIL

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



UNCONTROLLED DOCUMENT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.025), XXX=±0.25 (±0.013), XXXX=±0.127 (±0.006). LEAD SIZE=±0.35 (±0.002), LEAD LENGTH=±0.75 (±0.03), MIN= +0.00 DECIMAL PRECISION MAX= +0.00 DECIMAL PRECISION

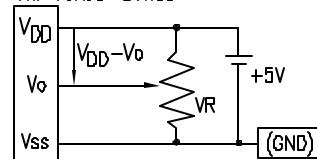
MIN= -0.00 DECIMAL PRECISION MAX= -0.00 DECIMAL PRECISION

REV.	PART NUMBER	CONFIDENTIAL INFORMATION	LUMEX	290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw
	LCM-S04004DSF-XB	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.		DRAWN BY: JD CHECKED BY: APPROVED BY:
	TRANSFLECTIVE, LED BACKLIGHT, 6:00 VIEW ANGLE 40 x 4 LCD CHARACTER MODULE, 1/16 DUTY, 1/5 BIAS, EUROPEAN FONT IC.	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.		DATE: 9.21.05 PAGE: 1 OF 2 SCALE: N/A

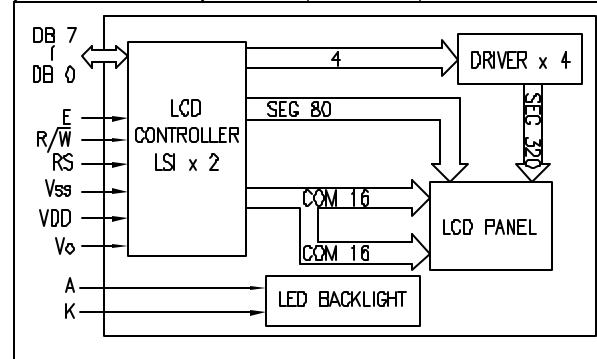
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION
1~8	DB7~DB0	H/L	DATA BUS-SOFTWARE SELECTABLE 4 OR 8 BIT MODE.
9	E1	H,H->L	ENABLE 1
10	R/W	H/L	H: DATA READ (MODULE-->MPU) L: DATA WRITE (MODULE<--MPU)
11	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT
12	V _o	-	POWER SUPPLY FOR LCD DRIVE
13	V _{ss}	-	GND (0V)
14	V _{DD}	-	5V
15	E2	H,H->L	ENABLE 2
16	-	-	NO CONNECTION
	A	-	ANODE FOR BACKLIGHT
	K	-	CATHODE FOR BACKLIGHT

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



BLOCK DIAGRAM 40 x 4, 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

V_{DD}=4.7V to 5.5V, T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	Typ.	MAX.	
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{ss}	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	4.0	10.0	mA
INPUT VOLTAGE	V _{IH}	HIGH	-	2.2	-	V _{DD}
	V _{IL}	LOW	-	0	-	0.6
OUTPUT VOLTAGE	V _{OH}	HIGH	-	2.4	-	V
	V _{OL}	LOW	-	-	-	0.4
*LED BACKLIGHT	VOLTAGE	V _f	-	-	4.2	4.6
	CURRENT	I _f	-	-	500	-
	POWER CONSUMPTION	P _D	-	-	2100	-
	LUMINOUS COLOR	L	I _f =500mA	70	-	-

*ONLY APPLIES TO MODULES WITH BACKLIGHT

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX= -DECIMAL PRECISION

MIN= +0.00 MAX= -0.00

REV.

PART NUMBER

LCM-S04004DSF-XB

40 x 4 LCD CHARACTER MODULE, 1/16 DUTY, 1/5 BIAS,
TRANSFLECTIVE, LED BACKLIGHT, 6:00 VIEW ANGLE,
EUROPEAN FONT IC.

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RELIABILITY NOTE

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