PART NUMBER	REV.
LCM-S04002DSF-Y1P	A

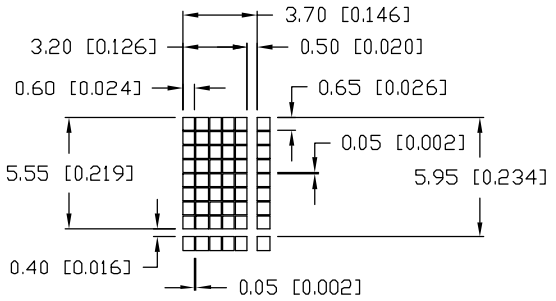
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	9-25-98

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

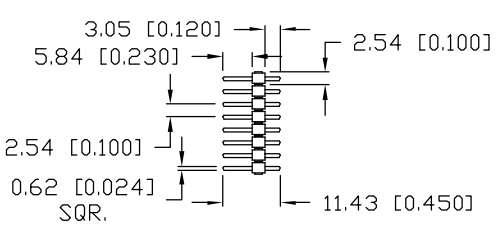
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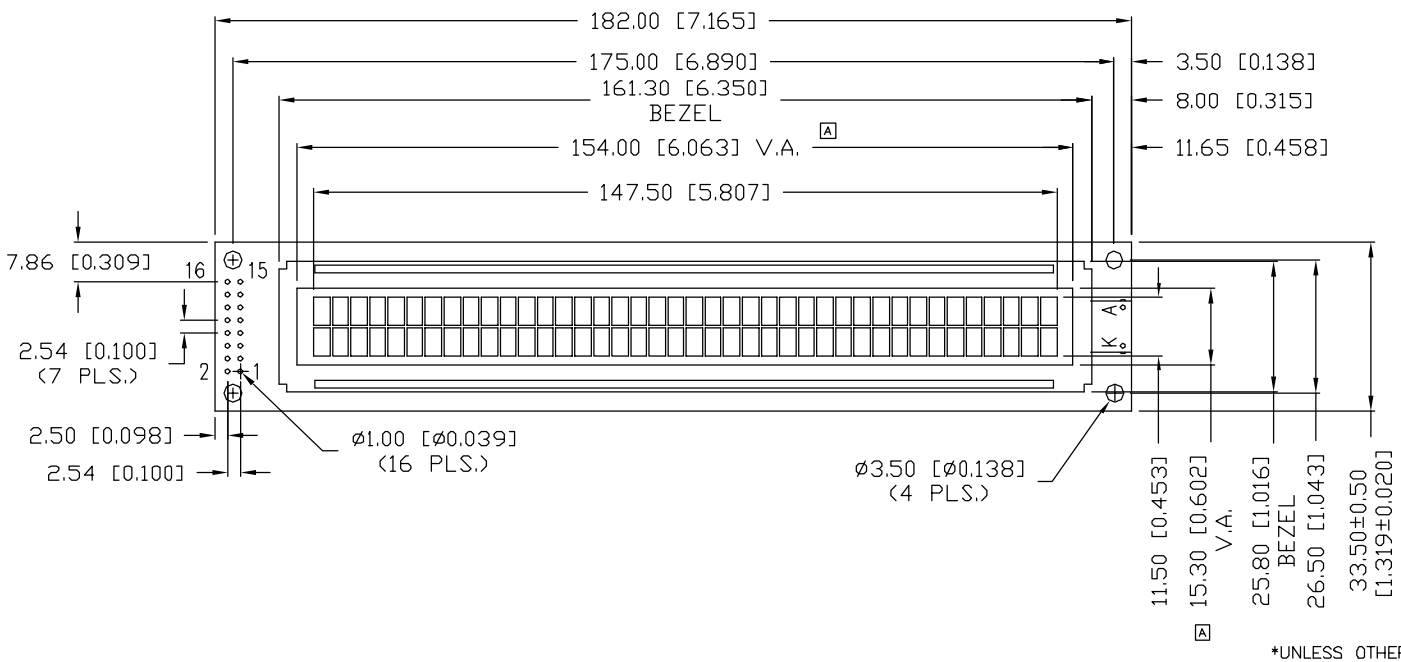
1. 8 x 2 HEADER PINS.
2. 0.000030" GOLD PLATED.
3. BERG P/N 67997-516 OR EQUIVALENT.

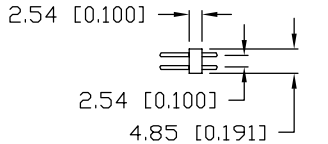
CHARACTER DETAIL

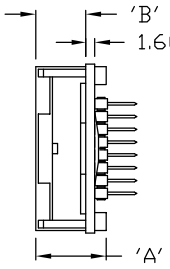


PIN DETAIL









TYPE DIM.	A	B
WITH BACKLIGHT	12.7	8.7
NO BACKLIGHT	8.8	4.7

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

REV.	PART NUMBER
A	LCM-S04002DSF-Y1P

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX,
40 x 2 CHARACTER LCD MODULE, STN YELLOW,
1/16 DUTY, 1/5 BIAS, 12:00 VIEW, WITH PINS.

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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
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DU/BC			PAGE: 1 OF 2
			SCALE: N/A

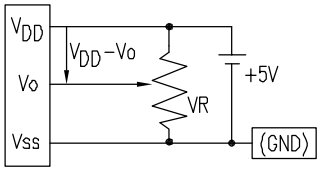
PART NUMBER	REV.
LCM-S04002DSF-Y1P	A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	12-31-99

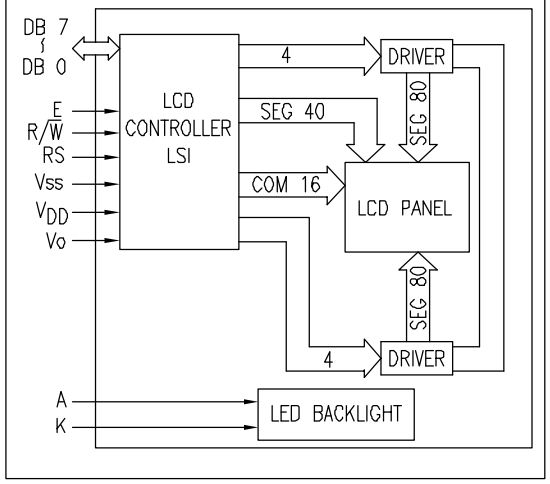
PIN CONFIGURATION

PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	Vss	-	POWER SUPPLY	GND (0V)
2	V_{DD}	-		5V
3	Vo	-		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/$\overline{W}$	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

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



BLOCK DIAGRAM 1/16 DUTY, 1/5 BIAS



ELECTRICAL CHARACTERISTICS

V_{DD}=4.7V to 5.3V, T_A=25°C

ITEM		SYMBOL	CONDITION	STANDARD VALUE			UNIT
				MIN.	TYP.	MAX.	
SUPPLY VOLTAGE FOR LOGIC		V_{DD}-Vss	-	-	5.0	-	V
SUPPLY CURRENT FOR LOGIC		I_{DD}	V_{DD}=5V	-	2.0	3.0	mA
INPUT VOLTAGE	HIGH	V_{IH}	-	2.2	-	4.7	V
	LOW	V_{IL}	-	0	-	0.6	V
OUTPUT VOLTAGE	HIGH	V_{OH}	I_{OH}=-0.205mA	2.4	-	-	V
	LOW	V_{OL}	I_{OL}=1.6ma	-	-	0.4	V
*LED BACKLIGHT	VOLTAGE	Vf	-	-	4.2	4.6	V
	CURRENT	If	-	-	210	-	mA
	POWER CUNSUMPTION	PD	-	-	882	-	mW
	LUMINOUS	L	If=210mA	70	-	-	cd/m^2
	COLOR	-	-	-	-	-	nm

*ONLY APPLIES TO MODULES WITH BACKLIGHT

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	TEST CONDITION	STANDARD VALUE		UNIT
			MIN	MAX	
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
STORAGE TEMPERATURE	Tstg	LCM-S	-20	70	°C

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REV.	PART NUMBER
A	LCM-S04002DSF-Y1P

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX,
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