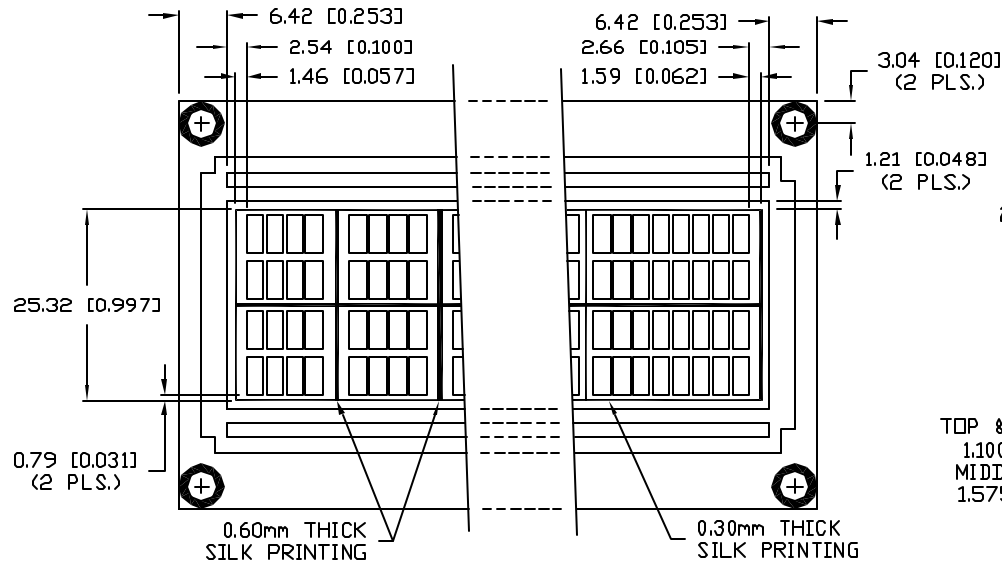


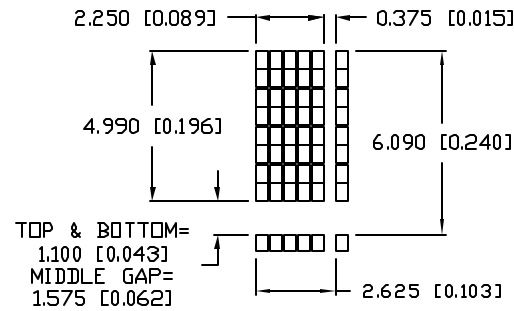
PART NUMBER
LCM-S10404DSF-Y1P

REV.
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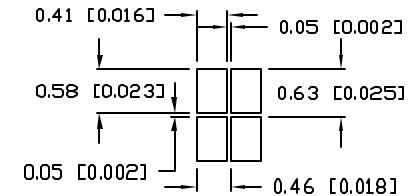
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10489./	12-22-98



CHARACTER DETAIL



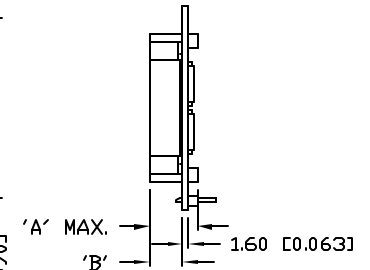
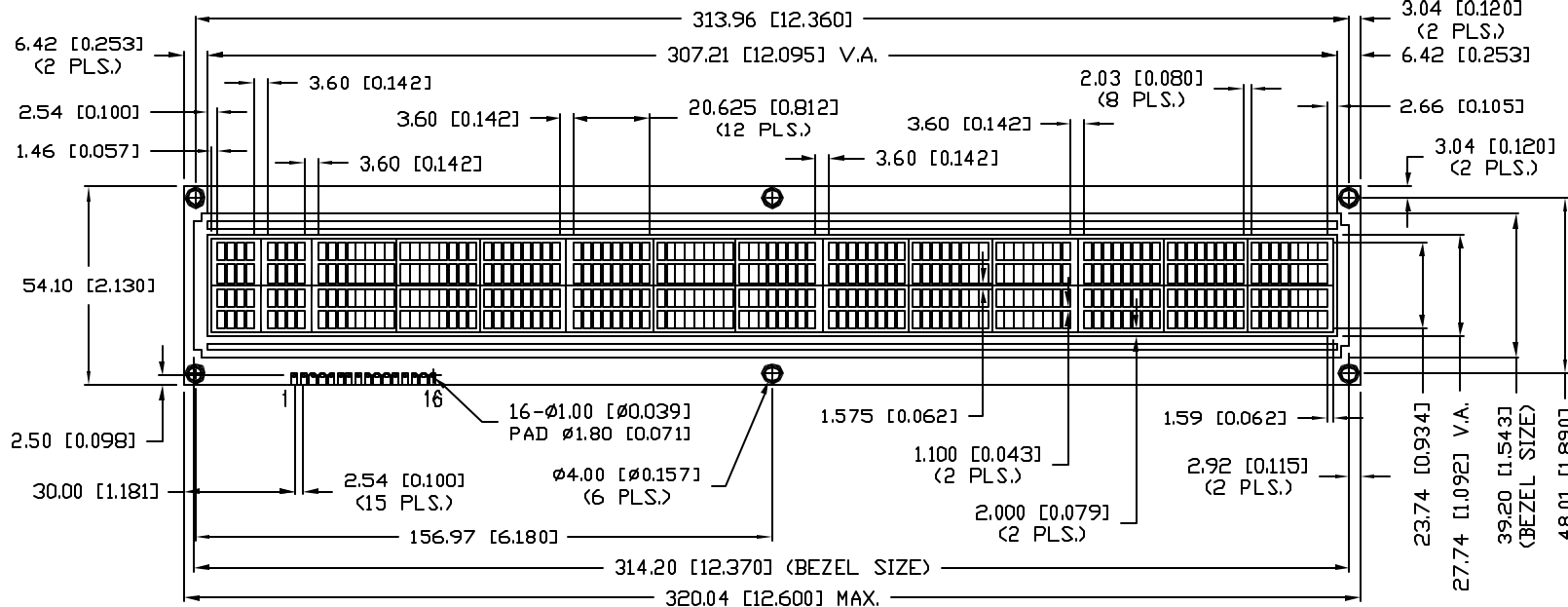
PIXEL DETAIL



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

NOTES:

- 0.3mm THICK SILK SCREEN ON FRONT PANEL UNLESS OTHERWISE SPECIFIED.
- 16 PIN SINGLE ROW HEADER, SAMTEC PART#: MTSW-116-07-S-S-215 OR EQUIVALENT.



TYPE	DIM.	A	B
WITH BACKLIGHT	12.7	8.8	
NO BACKLIGHT	8.8	4.8	

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

REV.
A

PART NUMBER
LCM-S10404DSF-Y1P

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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

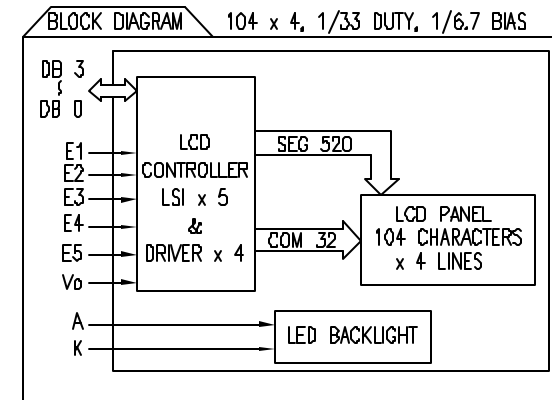
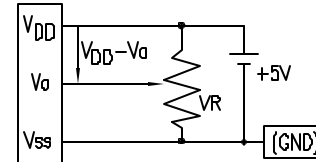
DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 9-30-98
SA/DU/BC			PAGE: 1 OF 2
			SCALE: N/A

4.99mm CHARACTER HEIGHT, 104 x 4 CHARACTER LCD MODULE, TOP VIEW, STN, YELLOW-GREEN BACKGROUND, TRANSFLECTIVE W/LED BACKLIGHT, 1/33 DUTY, 16 PINS.

PART NUMBER		REV.
LCM-S10404DSF-Y1P		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
	SEE PAGE 1./	

PIN CONFIGURATION				
PIN NO.	SYMBOL	LEVEL	FUNCTION	
1	V _{SS}	—	POWER SUPPLY	GND (0V)
2	V _{DD}	—		5V
3	V ₀	—		FOR LCD DRIVE
4	RS	H/L	REGISTER SELECT SIGNAL H: DATA INPUT L: INSTRUCTION INPUT	
5	R/ \bar{W}	H/L	H: DATA READ (MODULE \rightarrow MPU) L: DATA WRITE (MODULE \leftarrow MPU)	
6	E1	H,H \rightarrow L	ENABLE 1	
7	E2	H,H \rightarrow L	ENABLE 2	
8	E3	H,H \rightarrow L	ENABLE 3	
9	E4	H,H \rightarrow L	ENABLE 4	
10	E5	H,H \rightarrow L	ENABLE 5	
11~14	DB0~DB3	H/L	DATA BUS LINE	
15	A	—	ANODE	LED BACKLIGHT
16	K	—	CATHODE	LED BACKLIGHT

V_{DD}-V₀: LCD DRIVING VOLTAGE
VR: 10K Ω -20K Ω



ELECTRICAL CHARACTERISTICS		V _{DD} =4.5V to 5.5V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	MIN.	TYP.	MAX.	V
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	2.5	3.0	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	V _{DD} V
		V _{IL}	-	-0.3	-	0.6 V
OUTPUT VOLTAGE	HIGH	V _{OH}	I _{OH} =-0.205mA	2.4	-	V
		V _{OL}	I _{OL} =1.6mA	-	-	0.4 V
*LED BACKLIGHT	FORWARD VOLTAGE	V _f	-	4.3	5.0	V
	FORWARD CURRENT	I _f	V _f =5V	-	1200	mA
	REVERSE VOLTAGE	V _r	-	8	-	V
	REVERSE CURRENT	I _r	V _r =8V	-	12000	μ A
	POWER DISSIPATION	P _D	-	-	6	W
	LUMINOUS INTENSITY	I _v	-	100	150	cd/m ²

*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	MIN	MAX	V
SUPPLY VOLTAGE FOR LCD DRIVE	V ₀	T _a =25°C	4.5	5.5	V
INPUT VOLTAGE	V _I	T _a =25°C	V _{DD} -13.5	V _{DD} +0.3	V
OPERATING TEMPERATURE	T _{opr}	LCM-S	-10	60	°C
		LCM-H	-20	70	°C
STORAGE TEMPERATURE	T _{stg}	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

REV.	PART NUMBER	CONFIDENTIAL INFORMATION		LUMEX INCORPORATED		290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 PHONE: 1-847-359-2790 WEB: HTTP://WWW.LUMEX.COM	
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4.99mm CHARACTER HEIGHT, 104 x 4 CHARACTER LCD MODULE, TOP VIEW, STN, YELLOW-GREEN BACKGROUND, TRANSELECTIVE W/LED BACKLIGHT, 1/33 DUTY, 16 PINS.		CHECKED BY:		APPROVED BY:		DATE: 9-23-98	
						PAGE: 2 OF 2	
						SCALE: N/A	

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