



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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UNCONTROLLED DOCUMENT

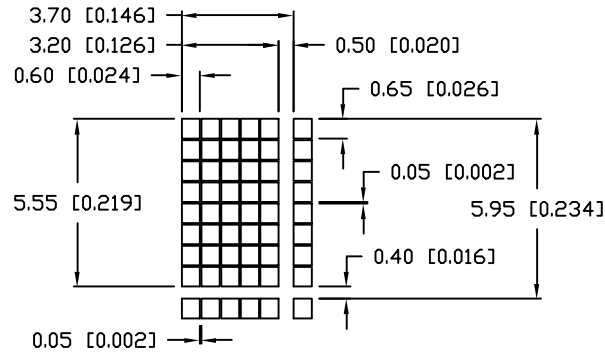
PART NUMBER
LCM-S02402DSM

REV.

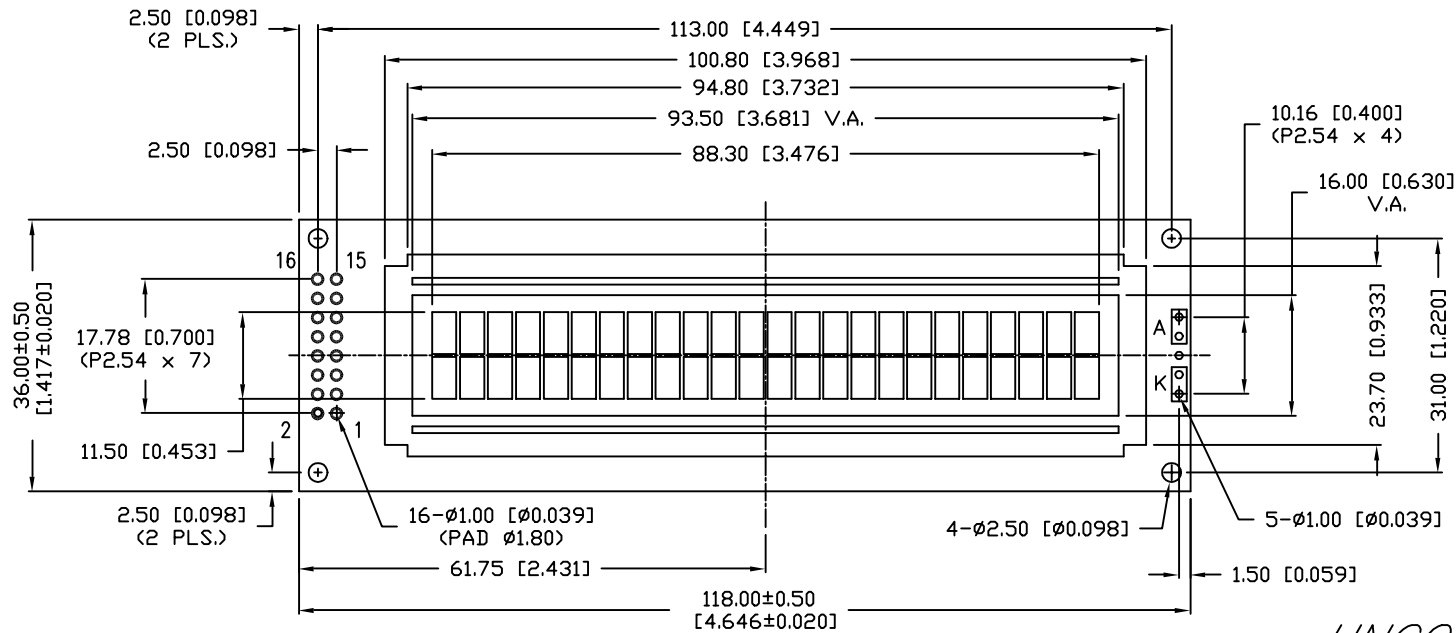
REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

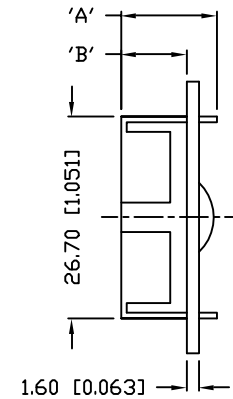
CHARACTER DETAIL



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



TYPE	DIM.	A	B
WITH BACKLIGHT		12.7	8.7
NO BACKLIGHT		8.8	4.8



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

REV.

PART NUMBER

LCM-S02402DSM

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DRAWN BY: CHECKED BY: APPROVED BY: DATE: 8-18-98

5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX,
24 x 2 CHARACTER LCD MODULE,
STN, TRANSMISSIVE, 1/16 DUTY.

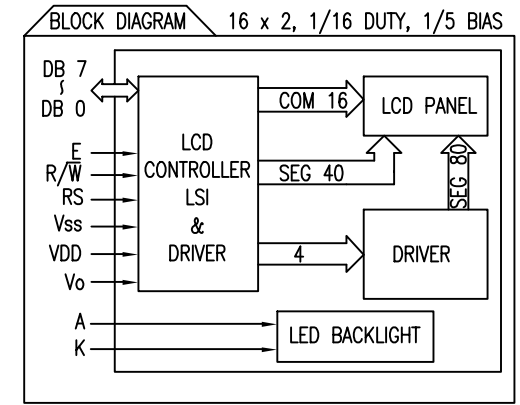
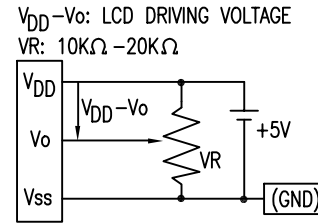
RELIABILITY NOTE
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

SA/BC

PAGE: 1 OF 2

SCALE: N/A

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		



ELECTRICAL CHARACTERISTICS V_{DD}=4.5V to 5.5V, T_A=25°C

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	APPLICABLE TERMINAL	
			MIN.	TYP.	MAX.			
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	4.7	5.0	5.3	V	V _{DD}	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	2.5	5.0	mA	V _{DD}	
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	V	RS,R/W,E	
	LOW	V _{IL}	-	0	-	0.6	DB0~DB7	
OUTPUT VOLTAGE	HIGH	V _{OH}	I _{OH} =-0.205mA	2.4	-	V	DB0~DB7	
	LOW	V _{OL}	I _{OL} =1.6ma	-	-	0.4	RS,R/W,E	
*LED BACKLIGHT	VOLTAGE	V _f	I _f =160mA	-	4.2	4.5	V	-
	CURRENT	I _f	-	-	160	400	mA	-
	POWER CONSUMPTION	PD	-	-	660	-	mW	-
	LUMINOUS	L	I _f =160mA	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} -V _{SS}	T _a =25°C	4.5	5.5	V
SUPPLY VOLTAGE FOR LCD DRIVE	V _{DD} -V _O	T _a =25°C	4.2	4.8	V
INPUT VOLTAGE	V _r	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

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REV.	PART NUMBER LCM-S02402DSM
5.55mm CHARACTER HEIGHT, 5 x 8 DOT MATRIX, 24 x 2 CHARACTER LCD MODULE, STN, TRANSMISSIVE, 1/16 DUTY.	

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