

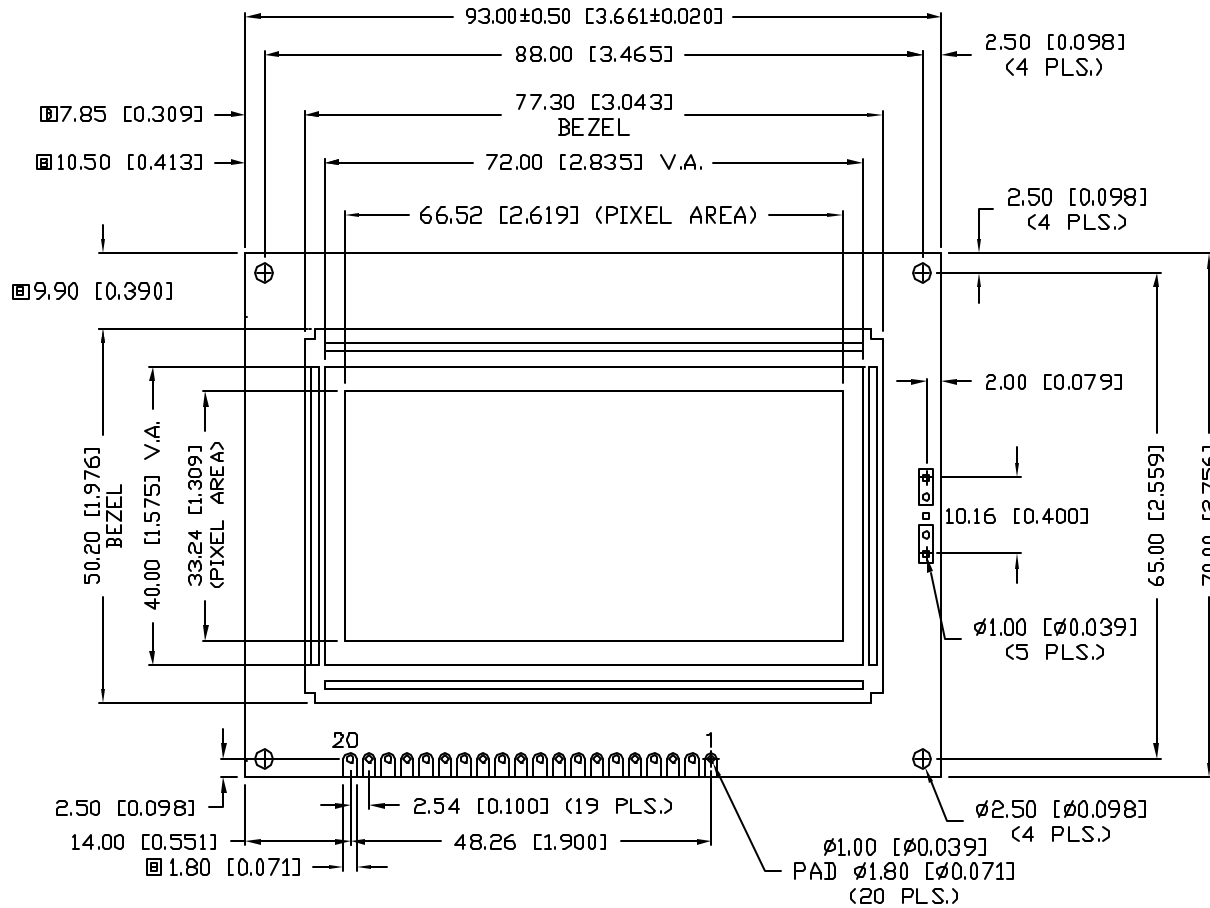
UNCONTROLLED DOCUMENT

PART NUMBER		REV.
LCM-X12864GXX		B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	9.1.98
B	E.C.N. #11227.	3.15.05

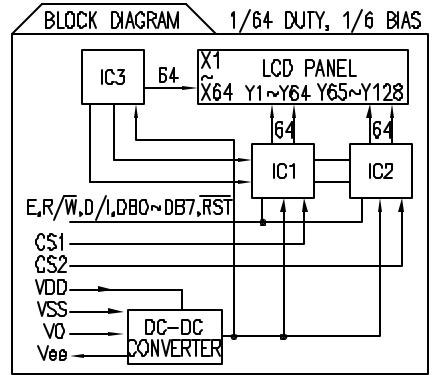
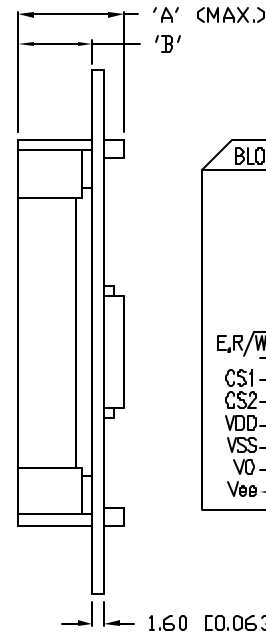
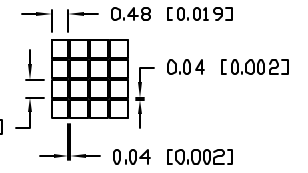
LCM-X	DXX	DESCRIPTION
STANDARD	S	SR STN, REFLECTIVE
HIGH TEMP.	H	SF STN, TRANSFLECTIVE(W/ BACKLIGHT)

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	

PIXEL DETAIL



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\*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 -0.00 MAX.= +0.00 -DECIMAL PRECISION

REV.	PART NUMBER
B	LCM-X12864GXX
128 x 64 DOT MATRIX GRAPHIC MODULE, 1/64 DUTY, 1/6 BIAS, WITH NEGATIVE CHARGE PUMP.	

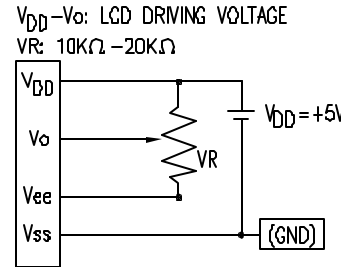
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**RELIABILITY NOTE**  
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DATE: 3.15.05		PAGE: 1 OF 1
SCALE: N/A		

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PIN CONFIGURATION			
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	V <sub>SS</sub>	-	POWER SUPPLY GND (0V) 5V FOR LCD DRIVE
2	V <sub>DD</sub>	-	
3	V <sub>b</sub>	-	
4	D/I	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
15	CS1	H/L	CHIP SELECTION SIGNAL FOR IC1
16	CS2	H/L	CHIP SELECTION SIGNAL FOR IC2
17	RST	-	RESET SIGNAL (ACTIVE "LOW")
18	V <sub>ee</sub>	-	OUTPUT VOLTAGE FOR LCD DRIVING
19	A	-	ANODE LED BACKLIGHT
20	K	-	CATHODE LED BACKLIGHT



READ/WRITE TIMING FOR MPU INTERFACE				
PARAMETER	SYMBOL	MIN	MAX	UNIT
ADDRESS HOLD TIME	t <sub>AH</sub>	10	-	ns
ADDRESS SETUP TIME	t <sub>AS</sub>	140	-	ns
E CYCLE TIME	t <sub>CYC</sub>	1000	-	ns
E HIGH LEVEL WIDTH	t <sub>WEH</sub>	450	-	ns
E LOW LEVEL WIDTH	t <sub>WEL</sub>	450	-	ns
DATA SETUP TIME	t <sub>DSW</sub>	200	-	ns
DATA HOLD TIME (READ)	t <sub>DHR</sub>	20	-	ns
DATA DELAY TIME	t <sub>DDR</sub>	-	320	ns
DATA HOLD TIME (WRITE)	t <sub>DHW</sub>	10	-	ns
E RISE TIME	t <sub>R</sub>	-	25	ns
E FALL TIME	t <sub>F</sub>	-	25	ns

ELECTRICAL CHARACTERISTICS		V <sub>DD</sub> =4.75V to 5.25V, T <sub>A</sub> =25°C					
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
			MIN.	TYP.	MAX.		
SUPPLY VOLTAGE FOR LOGIC	V <sub>DD</sub> -V <sub>SS</sub>	-	4.75	5.0	5.25	V	
SUPPLY CURRENT FOR LOGIC	I <sub>DD</sub>	V <sub>DD</sub> =5V	-	8.0	-	mA	
INPUT VOLTAGE	HIGH	V <sub>IH</sub>	-	0.7*V <sub>DD</sub>	V <sub>DD</sub>	V	
	LOW	V <sub>IL</sub>	0	-	0.3*V <sub>DD</sub>	V	
*LED BACKLIGHT	VOLTAGE	V <sub>f</sub>	I <sub>f</sub> =300mA	-	4.2	4.5	V
	CURRENT	I <sub>f</sub>	-	-	300	-	mA
	POWER CONSUMPTION	P <sub>D</sub>	-	-	1260	-	mW
	LUMINOUS	L	I <sub>f</sub> =300mA	60	90	-	cd/m <sup>2</sup>
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 <sub>DD</sub> -V <sub>SS</sub>	T <sub>a</sub> =25°C	-	7.0	V
SUPPLY VOLTAGE FOR LCD DRIVE	V <sub>DD</sub> -V <sub>o</sub>	-	10.8@40°C	12.4@0°C	V
INPUT VOLTAGE	V <sub>I</sub>	T <sub>a</sub> =25°C	V <sub>SS</sub>	V <sub>DD</sub>	V
OPERATING TEMPERATURE	T <sub>opr</sub>	LCM-S	0	50	°C
		LCM-H	-20	70	°C
STORAGE TEMPERATURE	T <sub>stg</sub>	LCM-S	-20	70	°C
		LCM-H	-30	85	°C

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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