

## UNCONTROLLED DOCUMENT

/ PIN	CONFIGUR/	ation 🔪	
PIN NO.	SYMBOL	LEVEL	FUNCTION
1	VLED1+	I	LED1 BACKLIGHT ANODE
2	VLED-	I	BACKLIGHT CATHODE
3	VLED2+	I	LED2 BACKLIGHT ANODE
4	VDD	I	POWER SUPPLY FOR LOGIC AND BOOSTER
5	Vss	-	GROUND
6	RST	Н	RESET SIGNAL
7	នា	L	Chip Selegt
8	RS	H/L	(L): CONTROL DATA, (H): DISPLAY DATA
9	RD	L	READ DATA
10	R/W	H/L	READ/WRITE DATA ENABLE
11~18	DBD~D87	H/L	PARALLEL DATA BUS

/ ELECTRICAL CHARACTERISTICS \

VDD = 4.7V to 5.3V, TA=25°C

ПТЕМ		SYMBOL	CONDITION	STAN	UNIT			
II EM			JIMDUL	CONDITION	MIN.	TYP.	MAX.	UNIT
SUPPLY VOLTAGE FOR LOGK			Vda	-	2.4	3.0	3.3	٧
SUPPLY CURRENT FOR LOGIC			100	VDD = 3.0V	-	2.9	3.3	mA
	HIGH			-	0.8*Voo	-	Voo	٧
INPUT VOLI	INPUT VOLTAGE LOW		٧L	-	0	-	0.2*Vod	٧
	VOLTAGE		V LED 1	-	-	3.2	3.7	v
			Vledz	-	-	3.2	3.7	v
	CURRENT		ILED1	I	-	20	22	mΑ
LED			LE02	I	-	20	22	mΑ
BACKLIGHT	COLOR		-	I	-	WHITE	-	-
	BRIGHTNESS		-	-	-	40	-	cd/m²

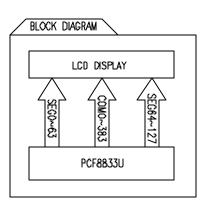
### ABSOLUTE MAXIMUM RATINGS

REV.

А

/	<b>\</b>				
ITEM	SYMBOL	TEST	STANDAR	UNIT	
II EM		CONDITION	MIN	IIN MAX	
SUPPLY VOLTAGE FOR LOGIC	VDD -Vss	Ta=25°C	-0.3	4.0	٧
SUPPLY VOLTAGE FOR LCD DRIVE	VLCD-VSS	Ta=25°C	-0.3	18.0	٧
INPUT VOLTAGE	Vt	Ta=25°C	-0.4	Vpp +0.5	۷
CURRENT OF LED 1	led1	Ta=25°C	0	25	mΑ
CURRENT OF LED 2	LEDŻ	Ta=25°C	0	25	mΑ
OPERATING TEMPERATURE	Торг	-	-20	70	ţ
STORAGE TEMPERATURE	Tstg	-	-30	80	ţ

PART NUMBER REV. LCM—H128128GCN—16 A REV. E.C.N. NUMBER AND REVISION COMMENTS DATE A SEE PAGE #1



CAGE TEMPERATURE
Tstg
 --30
80
\*C
//// CONTROLLED
DOCUMENT

"UNLESS DTHERWISE SPECIFIED TOLERANCES PER DECINAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), XXX=±0.25 (±0.010), XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.032). NIN= +DECINAL PRECISION MAX.= +0.000 (±0.002), LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.032). NIN= +DECINAL PRECISION MAX.= +0.000 (±0.002). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.002). NIN= +DECINAL PRECISION MAX.= +0.000 (±0.002). NIN= +DECINAL PRECISION MAX.= +DECINAL PRECISIO

PART NUMBER

LCM-H128128GCN-16

1.6" 128 x 128 CSTN MODULE, TRANSMISSIVE (NEGATIVE), -20°C TO +70°C OPERATING TEMPERATURE, WIEGHT: 9g, GLARE UPPER POLARIZER, 1/32 DUTY, 6:00 VIEW. <u>Confidential information</u> The information contained in this document is the property of Lunex NG, except as specifically authorized in writing by Lunex 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 thro parties.

RELABLITY NOTE OUR NAMY YEARS OF EXPERENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MADIA CAUSE OF EARLY AND FUTURE FALURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

		) E. HELEN ROA ATINE, IL 600 DNE: +1.847.35 WEB: www.lume WEB: www.lume	57—6976 9.2790 x.com
DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 1.21.04 PAGE: 2 OF 3
JC			SCALE: N/A

## UNCONTROLLED DOCUMENT

		Ta=25°C	(BACKLIG	ht on)				
ITEM		SYMBOL			STANDARD VALUE			LINIT
ITEM			CONDITION		MIN.	TYP.	MAX.	UNIT
VIEWING ANGLE RANGE		<b>•</b> 1, <b>•</b> 2	<b>9</b> =0'	X-AXIS	-35	-	35	DEC
(TRANSMISSIVE MODE)	<b>₹1,</b> ₹2	K≥3	Y-AXIS	-35	-	35	DEG.	
Contrast ratio		CR	<b>0=</b> 0°,	<b>♦=</b> ()"	-	50	-	
	R	Х			0.51	0.56	0.61	-
CHROMATICITY COORDINATES		Y			D.30	0.35	0.40	-
	G	Х			D.25	0.30	0.35	-
		Y			D.48	0.53	0.58	-
	В	Х	<b>B</b> =0'.	<b>6</b> _0	D.10	0.15	0.20	-
		Y	<b>e</b> =0, •	₩-V	D.16	0.21	0.26	-
	w	Х			D.27	0.32	0.37	-
	w	Y			0.30	0.35	0.40	-
RESPONSE TIME NOTE 1,2		Tr+Tf			-	300	350	ms

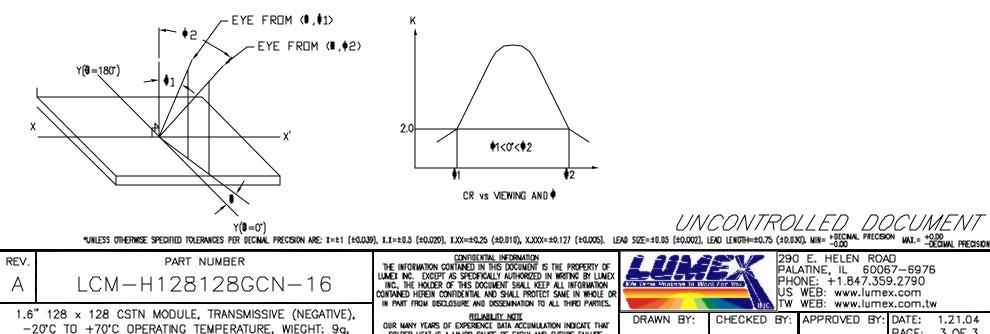
PART NUMBER REV. ICM-H128128GCN-16 А E.C.N. NUMBER AND REVISION COMMENTS REV. DATE SEE PAGE #1 А

#### NOTES:

1. THE TIME THAT THE LUMINANCE LEVEL REACHES 90% OF FULL BRIGHTNESS LEVEL FROM 0% WHEN "ON" SIGNAL IS APPLIED. 2. THE TIME THAT THE LUMINANCE LEVEL REACHES 10% OF FULL

BRIGHTNESS LEVEL FROM 100% WHEN "OFF" SIGNAL IS APPLIED.

GLARE UPPER POLARIZER, 1/32 DUTY, 6:00 VIEW.



SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE.

PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

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290 E. HELEN ROAD

PALATINE, IL 60067-6976

PHONE: +1.847.359.2790

US WEB: www.lumex.com

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