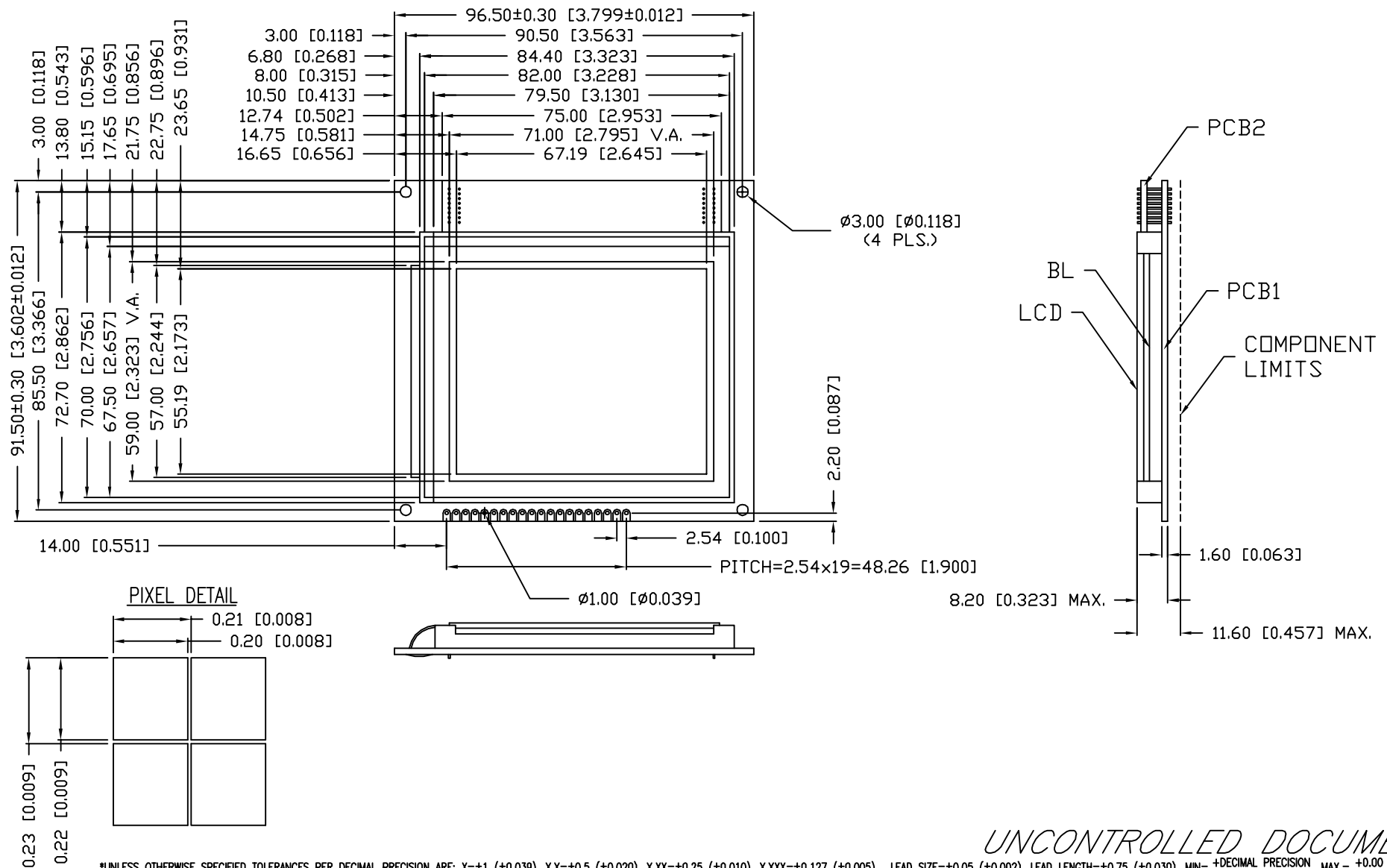




*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= ± 1 (± 0.039), X.X= ± 0.5 (± 0.020), X.XX= ± 0.25 (± 0.010), X.XXX= ± 0.127 (± 0.005). LEAD SIZE= ± 0.05 (± 0.002), LEAD LENGTH= ± 0.75 (± 0.030). MIN= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.

PART NUMBER

LCR-U320240GWF-W

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LUMEX
Creating LED and LCD Solutions Together™

290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

DRAWN BY:

JN

CHECKED BY:

APPROVED BY:

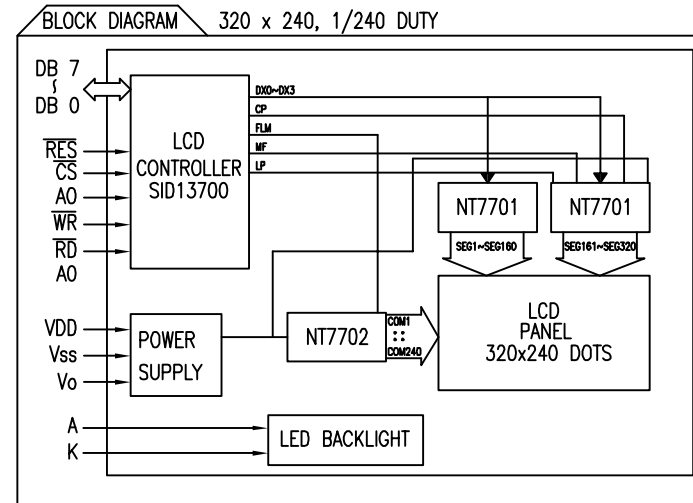
DATE: 10.20.09

PAGE: 1 OF 1

SCALE: N/A

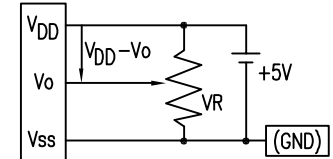
320 x 240 LCD GRAPHIC MODULE, FSTN
POSITIVE, 6:00 VIEW, WHITE LED BACKLIGHT,
-30°C TO +80°C OPER. TEMP.

PIN CONFIGURATION		
PIN NO.	SYMBOL	FUNCTION
1	V _{SS}	GROUND TERMINAL OF MODULE
2	V _{DD}	POWER TERMINAL 2.7V TO 5.5V (TYP:5.0V)
3	V _O	CONTRAST VOLTAGE FOR LCD DRIVE (VARIABLE)
4	NC	NO USED
5	WR	8080 FAMILY: WHITE SIGNAL: 6800 FAMILY: R/W SIGNAL
6	RD	8080 FAMILY: READ SIGNAL: 6800 FAMILY: ENABLE CLOCK (E)
7	CS	CHIP SELECT. THIS ACTIVE-LOW INPUT ENABLES THE S1D13700. ITS IS USUALLY CONNECTED TO THE OUTPUT OF AN ADDRESS DECODER DEVICE THAT MAPS THE S1D13700 INTO THE MEMORY SPACE OF THE CONTROLLING MICROPROCESSOR
8	A0	SYSTEM ADDRESS SELECT. FOR DIRECT ADDRESSING MODE, THIS PIN IS USED FOR SYSTEM ADDRESS BIT 0. FOR INDIRECT ADDRESSING MODE, THIS PIN IN CONJUNCTION WITH RD# AND WR# DETERMINES THE TYPE OF DATA PRESENT ON THE DATA BUS
9	RES	RESET SIGNAL
10~17	DB0~DB7	DATA BUS
18	NC	NOT USED
19	LED -(K)	CATHODE FOR BACKLIGHT
20	LED +(A)	ANODE FOR BACKLIGHT



ELECTRICAL CHARACTERISTICS		V _{DD} =2.7V to 4.5V, T _A =25°C				
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
SUPPLY VOLTAGE FOR LOGIC	V _{DD} -V _{SS}	-	MIN.	TYP.	MAX.	
SUPPLY CURRENT FOR LOGIC	I _{DD}	V _{DD} =5V	-	0.10	-	mA
INPUT VOLTAGE	HIGH	V _{IH}	-	2.2	-	V _{DD}
	LOW	V _{IL}	-	0	-	0.6
OUTPUT VOLTAGE	HIGH	V _{OH}	-	2.4	-	V
	LOW	V _{OL}	-	-	0.4	V
LED BACKLIGHT	VOLTAGE	V _f	I _f =120mA	-	4.1	-
	CURRENT	I _f	-	-	120	mA
	POWER CONSUMPTION	PD	-	-	640	mW
	LUMINOUS	L	I _f =120mA	180	-	cd/m ²
	COLOR	WHITE	X	0.27	0.3	nm
			Y	0.27	0.3	nm

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



ABSOLUTE MAXIMUM RATINGS				
ITEM	SYMBOL	TEST CONDITION	LIMITS	UNIT
SUPPLY VOLTAGE RANGE	V _{DD}	T _a =25°C	-0.3~+7.0	V
INPUT VOLTAGE RANGE	V _{IN}	T _a =25°C	-0.3V _{DD} +0.3	V
POWER SUPPLY FOR LIQUID CRYSTAL DRIVE	V _O	T _a =25°C	-0.3~+28	V
VOLTAGE FOR BL	V _{LED1}	T _a =25°C	4~4.5	V
OPERATING TEMPERATURE	T _{opr}		-30~+80	°C
STORAGE TEMPERATURE	T _{stg}		-40~+80	°C

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