

中显液晶

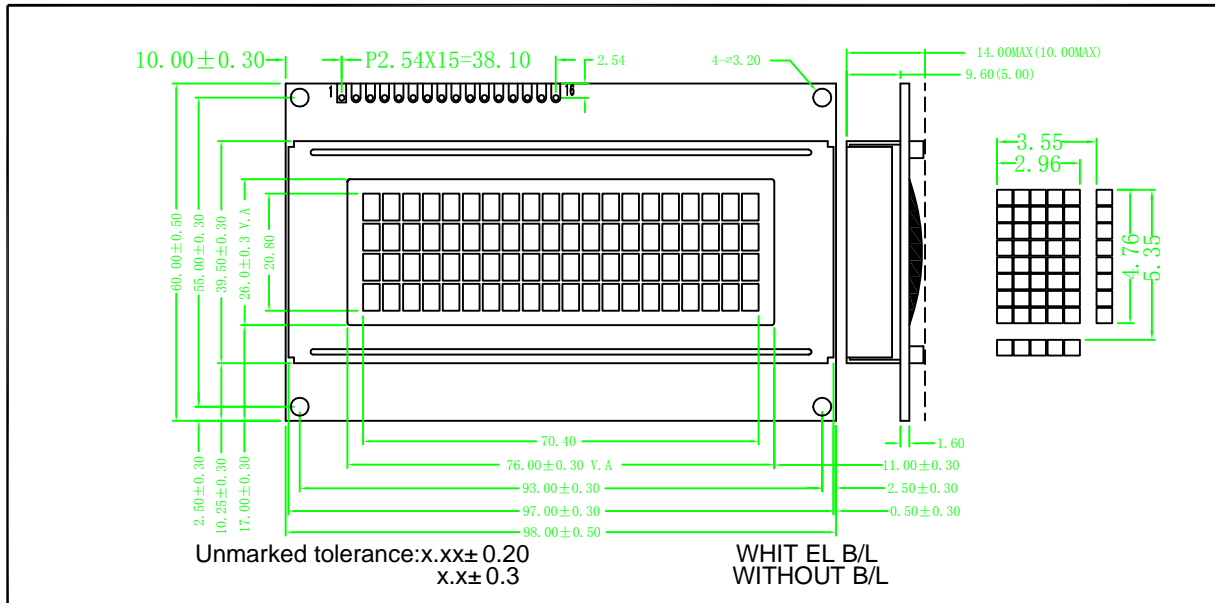
CHARACTER-COB

OUTLINE DIMENSIONS

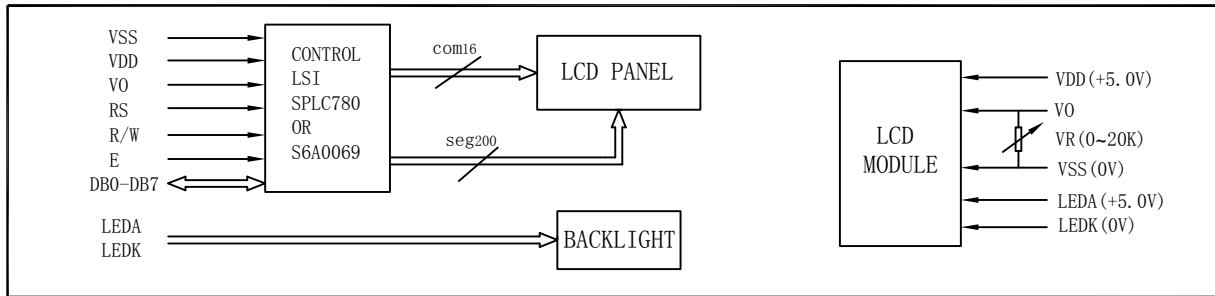
# ZX2004A Series

用心制造

20X4 CHARACTERS  
1/16 DUTY, 1/5 BIAS



## BLOCK DIAGRAM & POWER SUPPLY



## MECHANICAL SPECIFICATIONS & FEATURE

LTEM	NORMAL DIMENSIONS (MM)	FEATURE	
MODULE SIZE (W*H*T)	98.0 X 60.0 X 14.0	LCD TYPE	STN TN HTN FSTN
VIEW AREA (W*H)	76.0 X 26.0	LCD COLOUR	STN: YELLOW-GREEN, GRAY, OTHER: GRAY
CHARACTER PITCH (W*H)	3.55 X 5.35	VIEW ANGLE	6 0' CLOCK, 12 0' CLOCK
CHARACTER SIZE (W*H)	2.96 X 4.76	DISPLAY TYPE	POSITIVE TYPE, NEGATIVE TYPE
CHARACTER FONT	5 X 8	REAR POLARIZER	TRANSMISSIVE, REFLECTIVE, TRANSFLECTIVE
DOT PITCH (W*H)	0.60 X 0.60	OPERATING TEMPERATURE	-40°C ~ 70°C    -45°C ~ 75°C
DOT SIZE (W*H)	0.56 X 0.56	BACKLIGHT	LED: YELLOW EL: GREEN, BLUE-GREEN, BLUE WITHOUT

## ELECTRICAL CHARACTERISTICS

LTEM	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
OPERATING VOLTAGE	VDD	Ta=25°C	---	5.0	---	V
OPERATING VOLTAGE FOR LCD	VLCD	Ta=25°C	---	4.7	---	V
SUPPLY CURRENT	IDD	Ta=25°C, VDD=5.0V	---	2.0	3.0	MA
SUPPLY CURRENT FOR BACKLIGHT	IF	Ta=25°C, VF=4.2V	---	100	---	MA

## INTERFACE PIN CONNECTIONS

PIN NO	SYMBOL	LEVEL	DESCRIPTION
1	VSS	---	GROUND FOR LOGIC
2	VDD	---	POWER SUPPLY FOR LOGIC
3	VO	---	POWER SUPPLY FOR LCD DRIVE
4	RS	H/L	REGISTER SELECTION (H: DATA REGISTER, L: INSTRUCTION REGISTER)
5	R/W	H/L	READ/WRITE SELECTION (H: READ, L: WRITE)
6	E	H/L	ENABLE SIGNAL FOR LCM
7-14	DB0-DB7	H/L	DATA BUS LINES
15	LEDA	---	POWER SUPPLY FOR BACKLIGHT(+)
16	LEDK	---	POWER SUPPLY FOR BACKLIGHT(-)

## REMARK

OPERATING VOLTAGE :5.0V, 模块-40度低温冷置2小时启动电流不大于2A, 启动时间不大于5分钟。客户液晶屏预焊单排针在背面。

CGROM FONT OPTION: ENGLISH JAPANESE RUSSIAN ETC

[Http://www.zxlcd.com](http://www.zxlcd.com)