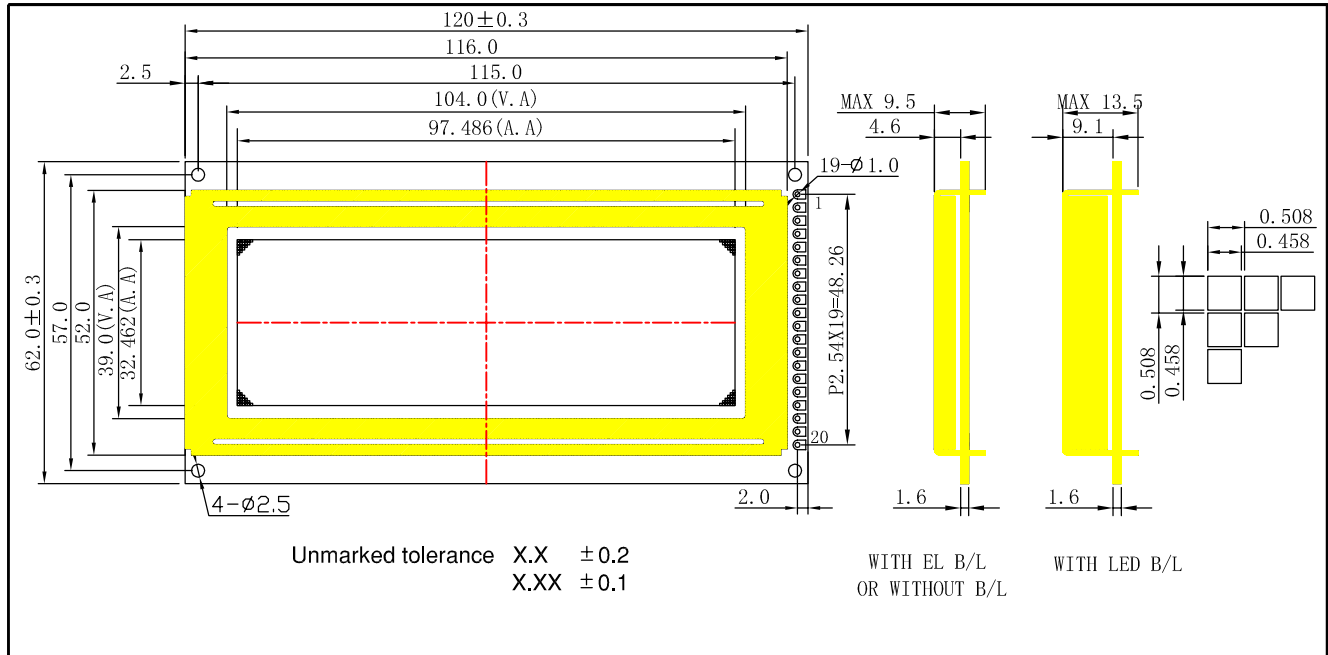
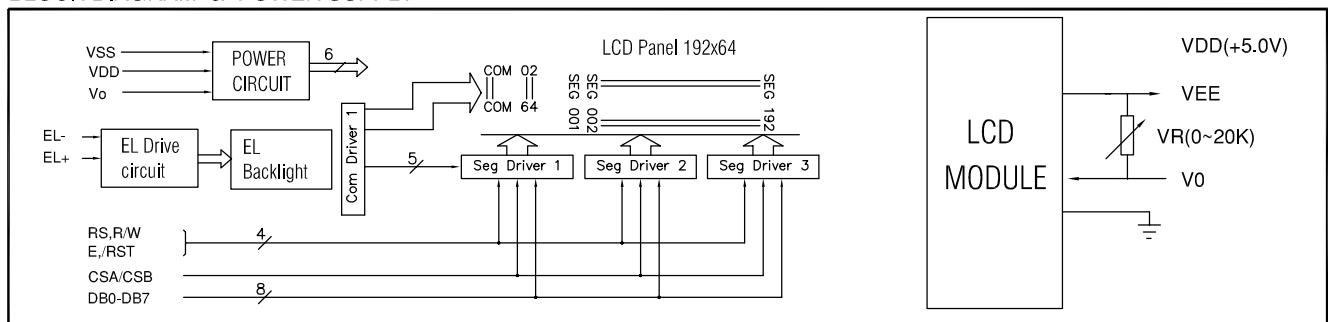


OUTLINE DIMENSIONS



BLOCK DIAGRAM & POWER SUPPLY



MECHANICAL SPECIFICATIONS & FEATURE

Item	Normal Dimensions(mm)	FEATURE	
Module Size (W*H*T)	120.0x62.0x9.5/13.5	LCD Type	STN、FSTN
View Area (W*H)	104.0x39.0	LCD Colour	STN:Yellow-Green、Gray FSTN:Gray
DotsxDots (W*H)	192x64	View Angle	6 O'clock、12 O'clock
Dot Pitch (W*H)	0.508x0.508	Display Type	Positive Type、Negative Type
Dot Size (W*H)	0.458x0.458	Rear polarizer	Transmissive、Reflective、Transflective
---	---	Operating Temperature	0°C ~ 50°C、-20°C ~ 70°C
---	---	Backlight	LED:Yellow EL:Green、Blue-Green、Blue Without

ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25° C	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25° C	---	10.5	---	V
Supply Current	Idd	Ta=25° C, Vdd=5.0V	---	2.0	3.0	mA
Supply Current for Backlight	If	Ta=25° C, Vdd=5.0V	---	20	---	mA

INTERFACE PIN CONNECTIONS

Pin No	Symbol	Level	Description
1	VSS	—	Ground for Logic
2	VDD	—	Power supply for Logic(+5.0V)
3	Vo	—	Power supply for LCD drive
4	VEE	—	Negative voltage output
5	RS	H/L	Register selection (H:Data register, L:Instruction register)
6	R/W	H/L	Read/write selection (H:Read,L:Write)
7	E	H/H—L	Enable signal for LCM
8-15	DB0-DB7	H/L	Data Bus lines
16	CS1	H/L	CS1=0,CS2=0: Left part CS1=0,CS2=1: Middle part
17	CS2	H/L	CS1=1,CS2=0: Right part
18	/RST	L	Reset signal
19	EL1	—	Power supply for EL Backlight
20	EL2	—	Power supply for EL Backlight

REMARK

Operating voltage option: 5.0V or 3.0V
Negative type LCD colour: Blue