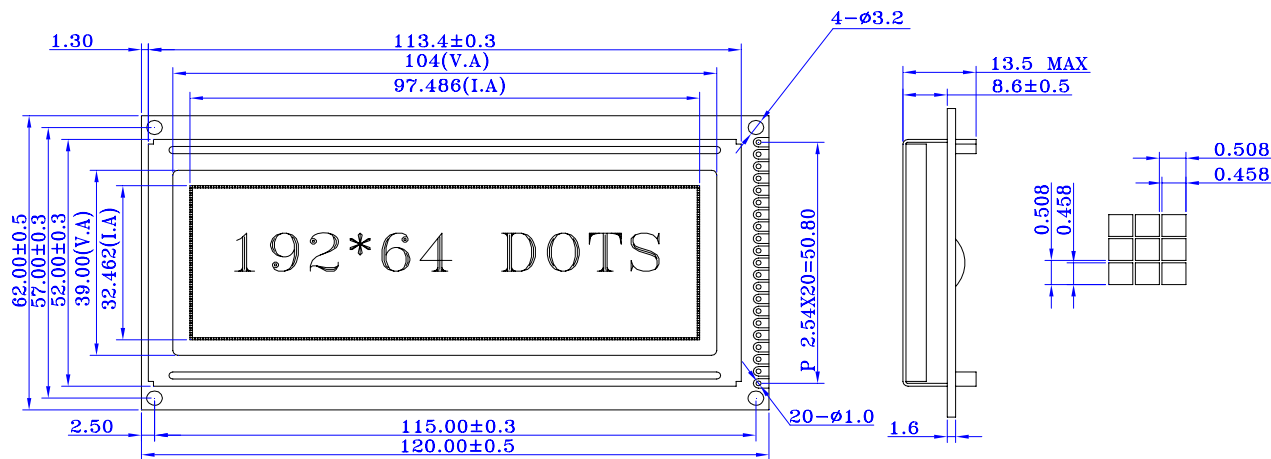
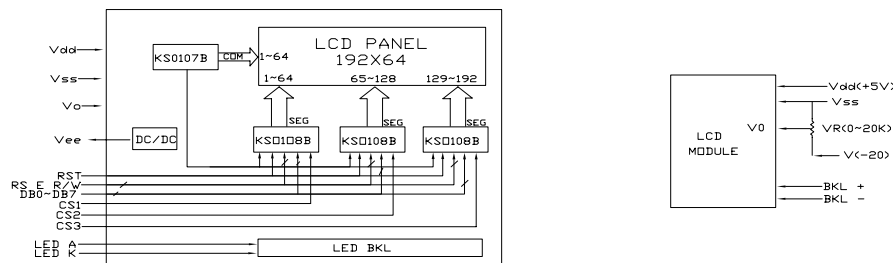


◆OUTLINE DIMENSION



◆BLOCK DIAGRAM & POWER SUPPLY



◆MECHANICAL SPEC. & FEATURES

Item	Dimension(mm)	Features	
Module Size(W×H×T)	120.0×62.0×9.5/14.0	LC Fluid	STN (Yellow-green, Gray, Blue), FSTN
Viewing Area(W×H)	104.0×39.0	Polarizer	Reflective, Transflective, Transmissive
Dot Size(W×H)	0.458×0.458	View Angle	6:00 o'clock or 12:00 o'clock
Dot Pitch(W×H)	0.508×0.508	Display Type	Positive or Negative
Dots×Dots	192×64	Backlight	LED (Optional)
		Operating Temp.	0℃~50℃ or -20℃~70℃
		Controller	S6B0108 or Equivalent

◆INTERFACE PIN CONNECTIONS

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	Vss	Ground for logic	8~15	DB0~DB7	Data bus lines
2	Vdd	Power supply for logic	16	CS1	Enable signal for IC1
3	Vo	Power supply for LCD	17	CS2	Enable signal for IC2
4	VEE	Negative voltage output	18	CS3	Enable signal for IC3
5	RS	Register selection (H:Data, L:Instruction)	19	/RES	Reset signal
6	R/W	Read/Write selection (H: R, L: W)	20	A	BKL +
7	E	Enable signal	21	K	BKL -

◆ELECTRICAL CHARACTERISTICS

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Operating Voltage	Vdd	Ta=25℃	---	5.0	---	V
Operating Voltage for LCD	Vlcd	Ta=25℃	---	10.5	---	V
Supply Current	Idd	Ta=25℃, Vdd=5.0V	---	2.5	3.0	mA
Supply Voltage for LED	Vf	Ta=25℃	---	4.2	---	V
Supply Current for LED	If	Ta=25℃, Vf=4.2V	---	300	---	mA