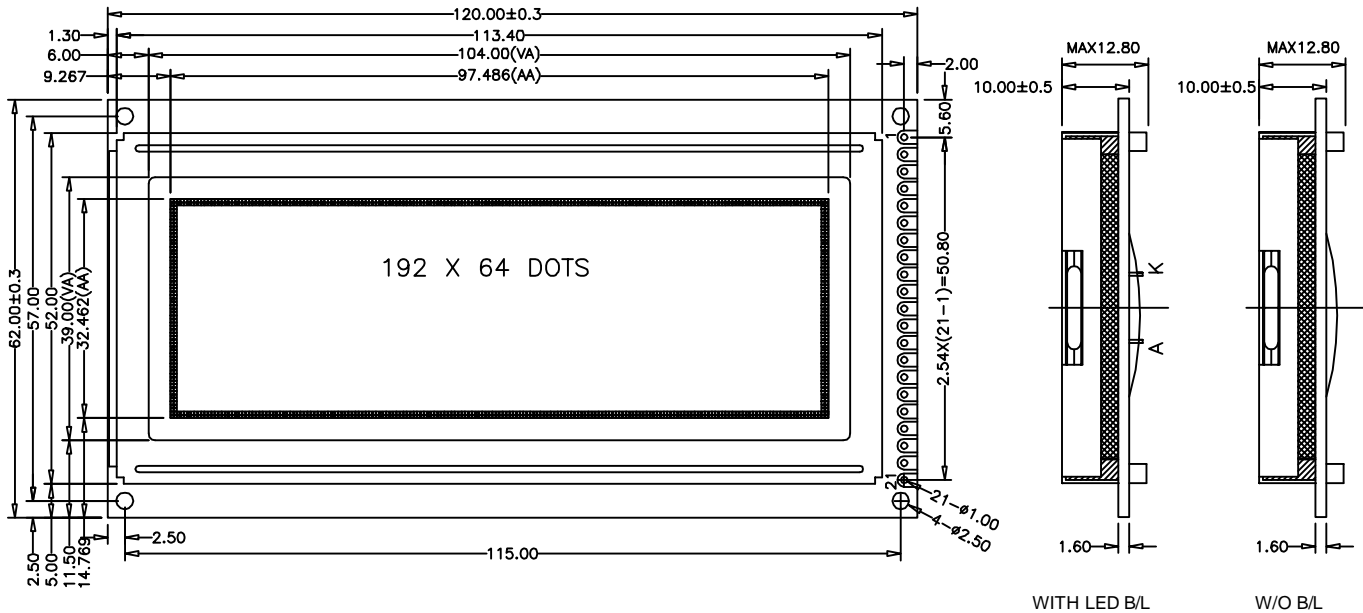


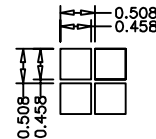
PG-190605 Series

OUTLINE DIMENSION



MECHANICAL DIMENSION

Overall Dimension (mm)	120.0 X 62.0 X 12.8
Viewing Area (mm)	104.0 X 39.0
Format	192 SEG × 64 COM
Dot Size (mm)	0.458 X 0.458
Dot Pitch (mm)	0.508 X 0.508



Dot Size

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	MIN	MAX	Unit
Supply Voltage for Logic	V _{dd-Vss}	-0.3	+7.0	V
Supply Voltage for LCD	V _{lcd}		+13.0	V
Input Voltage	V _{in}	-0.3	V _{dd} + 0.3	V

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V ; T_{op}=25° C)

Parameter	Symbol	MIN	Typical	MAX	Unit
Power Supply Voltage	V _{dd-Vss}		5.0		V
LCD Operating Voltage	V _{op}		10.5		V
LCM Current Consumption	I _{dd}				mA
Backlight Current Consumption	LED (Edge)				mA
	LED (Array)				mA
Driving Method		1/64 Duty 1/9 Bias			

NOTES

- IC Controller / Driver:** SBN0064G or Equivalent
- LCD Options:** Y/G STN, Gray FSTN, Negative FSTN
- Backlight Options:** NONE, Y/G LED, White LED
- Viewing Angle Options:** 6:00, 12:00
- Operating Temperature Options:** -0° C~+50° C, -10° C~+55° C, -20° C~+70° C
- Storage Temperature Options:** -10° C~+60° C, -20° C~+65° C, -30° C~+80° C

PIN ASSIGNMENT

Pin No.	Symbol	Function
1	VSS	Power Supply (GND)
2	VDD	Power Supply (+)
3	V0	Contrast Adjust
4	VEE	
5	RS	
6	R/W	Data Read / Write
7	E	Enable Signal
8	D0	Data Bus Line
9	D1	Data Bus Line
10	D2	Data Bus Line
11	D3	Data Bus Line
12	D4	Data Bus Line
13	D5	Data Bus Line
14	D6	Data Bus Line
15	D7	Data Bus Line
16	CS3	
17	CS2	
18	CS1	
19	RES	
20	NC	
21	NC	