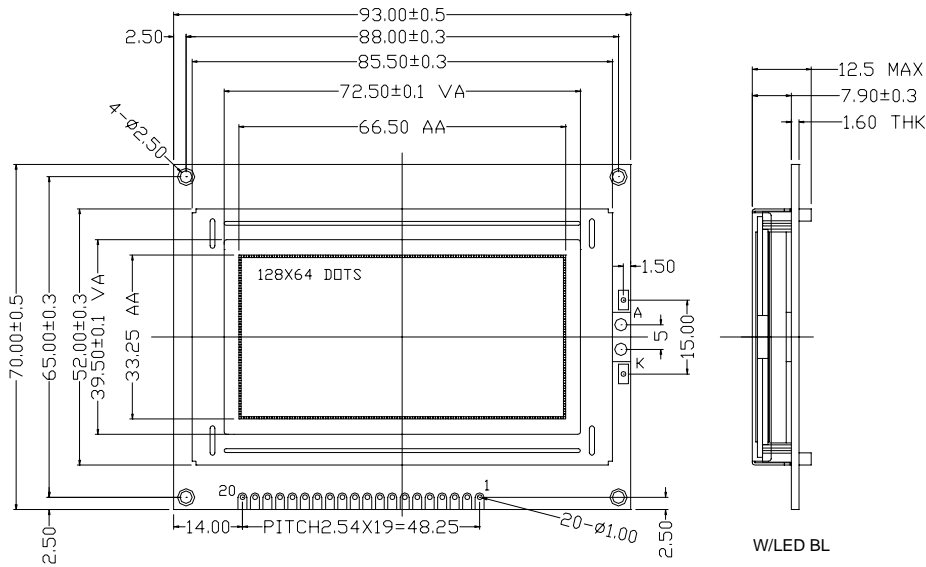
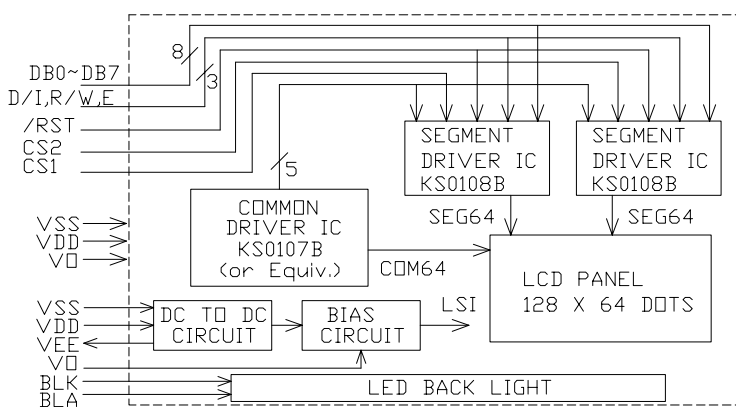


OUTLINE DIMENSION

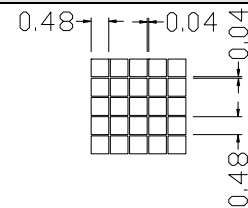


Tolerance: ± 0.20mm, unless otherwise specified.

BLOCK DIAGRAM



DISPLAY PATTERN



MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	93.0x70.0	MM
View Area	72.5x39.5	MM
Dot Size	0.48x0.48	MM
Dot Pitch	0.52x0.52	MM

Graphic Type

PIN ASSIGNMENT

Pin no	Symbol	Function
1	VSS	Power Supply(GND)
2	VDD	Power Supply(+)
3	VO	Contrast adjust
4	D/I	Data / Instruction signal
5	R/W	Read / Write signal
6	E	Clock
7~14	DB0~DB7	Data bus 0~7
15	CS1	Chip select signal for KS0108B(1)
16	CS2	Chip select signal for KS0108B(2)
17	/RST	Reset signal
18	VEE	Voltage booster output
19	BLA	Back light anode
20	BLK	Back light cathode

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	VDD	25°C	0	8.0	V
LCD driving supply voltage	VDD-VO	25°C	0	16.5	V
Input voltage	VI	25°C	VSS-0.3	VDD+0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	VDD-VSS	---	4.5	5.0	5.5	V
Supply current for logic	Idd	VDD-VSS=5V	---	3.8	6.0	mA
Operation voltage for LCD	VDD-Vo	0°C	9.0	9.5	10.0	V
		25°C	8.6	9.3	9.7	V
		50°C	8.2	8.8	9.2	V
Input voltage "H" level	VIH	---	0.7VSS	---	VDD	V
Input voltage "L" level	VIL	---	VSS	---	0.3VDD	V
Supply voltage for back light	VF	---	---	4.2	4.6	V
Supply current for back light	IF	VF=4.2V	---	360	720	mA

REMARKS:

- LCD options: STN, FSTN.
- Back light type: LED Back light feature.