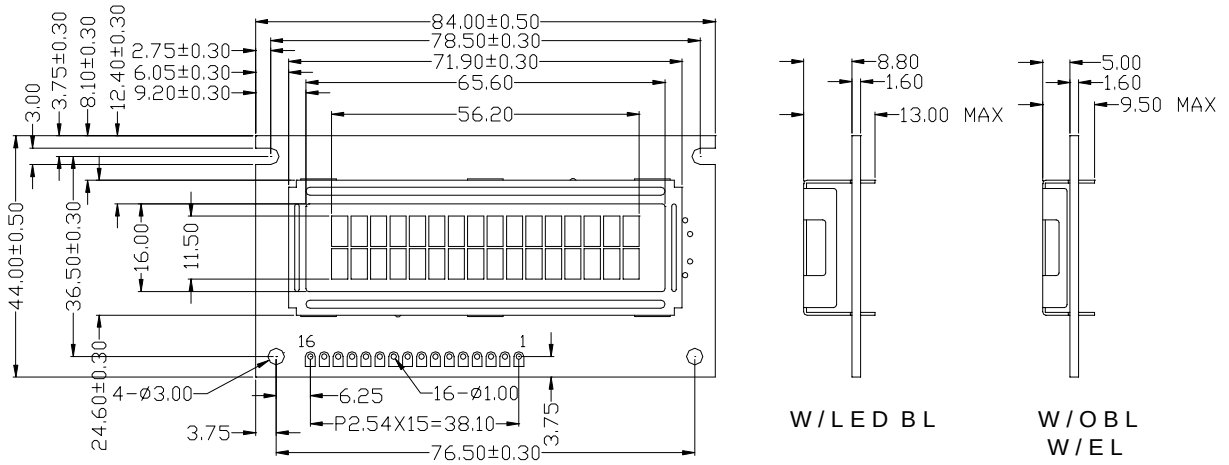
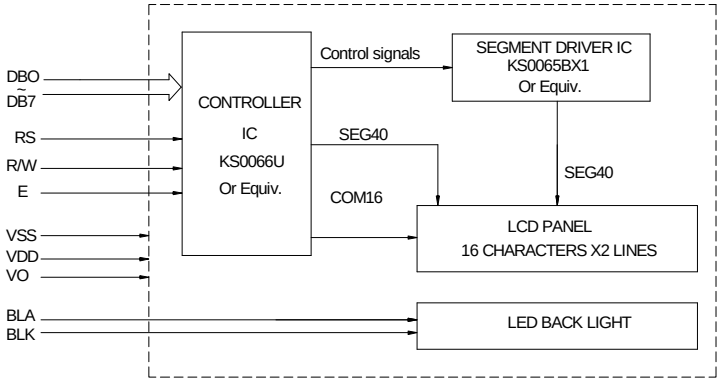
OUTLINE DIMENSION

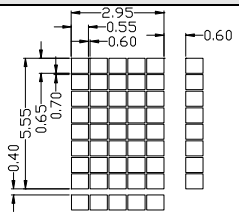


Tolerance: ± 0.20mm, unless otherwise specified.

BLOCK DIAGRAM



DISPLAY PATTERN



MECHANICAL SPECIFICATION

Item	Dimensions(W)X(H)	Unit
Overall Size	84.0×44.0	MM
View Area	65.6×16.0	MM
Character	2.95×5.55	MM
Dot Size	0.55×0.65	MM
Dot Pitch	0.60×0.70	MM

PIN ASSIGNMENT

Pin no	Symbol	Function
1	BLK	Back light cathode
2	BLA	Back light anode
3	Vss	Power Supply(GND)
4	V_{DD}	Power Supply(+)
5	VO	Contrast Adjust
6	RS	Command data input
7	R/W	Data read / write
8	E	Enable signal
9-16	DB0~DB7	Data bus line

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min	Max	Unit
Supply for logic voltage	V_{DD}	25℃	-0.3	7.0	V
LCD driving supply voltage	V_{DD}-VO	25℃	-0.3	V_{DD}+0.3	V
Input voltage	VI	25℃	-0.3	V_{DD}+0.3	V

ELECTRICAL CHARACTERISTICS

Item	Symbol	Condition	Min	Typical	Max	Unit
Supply voltage for logic	V_{DD}	---	4.5	5.0	5.5	V
Supply current for logic	IDD	---	---	1.38	3	mA
Operation voltage for LCD	V_{DD}-Vo	0℃	4.7	5.0	5.3	V
		25℃	4.5	4.8	5.1	V
		50℃	4.4	4.7	5.0	V
Input voltage "H" level	V_{IH}	---	2.2	---	V_{DD}	V
Input voltage "L" level	V_{IL}	---	-0.3	---	0.6	V
Supply voltage for back light	VF	---	---	4.2	4.6	V
Supply current for back light	IF	VF=4.2V	---	100	200	mA

REMARKS:

1. LCD options: STN, TN, FSTN.
2. Back light Options: LED\EL Back light feature.