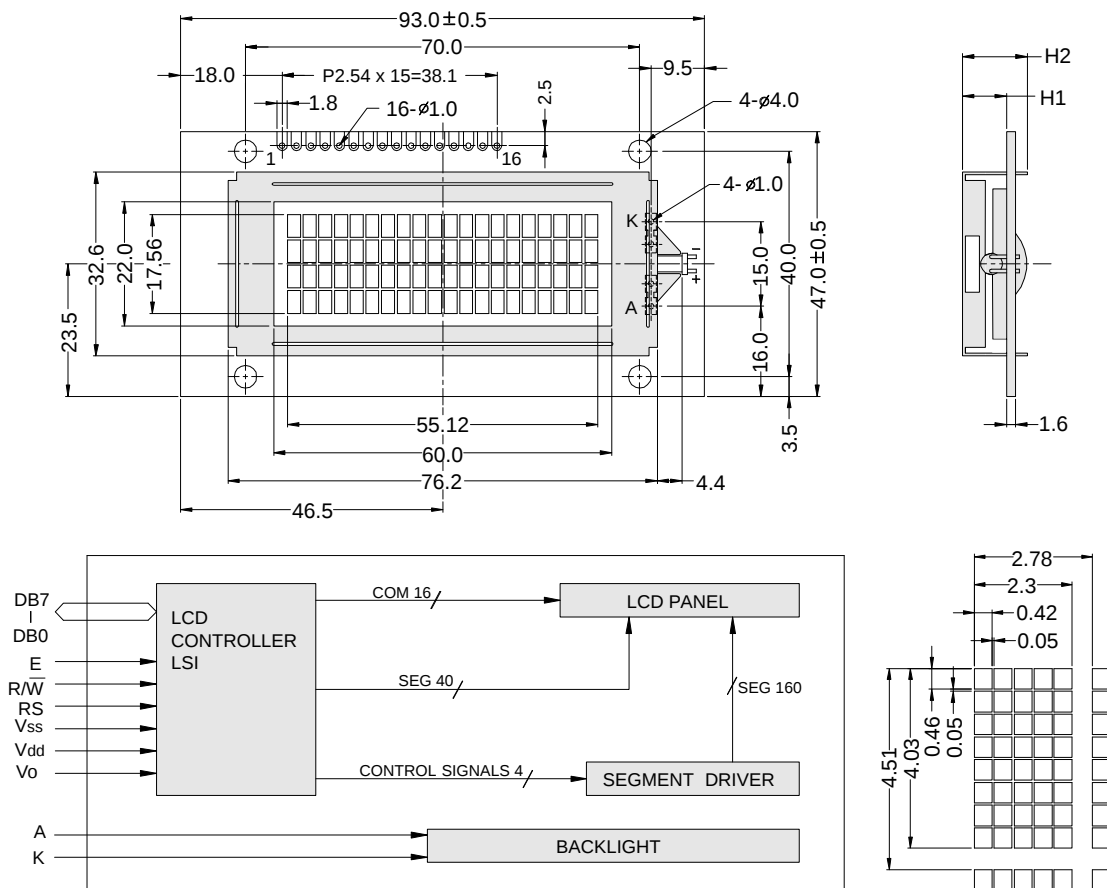




OUTLINE DIMENSION & BLOCK DIAGRAM



The tolerance unless classified $\pm 0.3\text{mm}$

MECHANICAL SPECIFICATION			
Overall Size	93.0 x 47.0	Module	H2 / H1
View Area	60.0 x 22.0	W / O B/L	5.0 / 9.6
Dot Size	0.42 x 0.46	EL B/L	5.0 / 9.6
Dot Pitch	0.47 x 0.51	LED B/L	7.8 / 11.5

PIN ASSIGNMENT		
Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast Adjust
4	RS	Register select signal
5	R/W	Data read / write
6	E	Enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A	Power supply for LED B/L (+)
16	K	Power supply for LED B/L (-)

ABSOLUTE MAXIMUM RATING					
Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7	V
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	13	V
Input voltage	Vin	25°C	-0.3	Vdd+0.3	V
ELECTRICAL CHARACTERISTICS					
Item	Symbol	Condition	Min.	Typical	Max. Units
Power supply voltage	Vdd-Vss	25°C	2.7	—	5.5 V
LCD operation voltage	Vop	Top	N	W	N W V
		-20°C	—	7.4	— 7.8 — 8.2 V
		0°C	4.9	—	5.2 — 5.5 — V
		25°C	4.5	6.4	4.8 6.7 5.1 7 V
		50°C	4.1	—	4.4 — 4.7 — V
LCM current consumption (No B/L)	Idd	70°C	—	6	— 6.3 — 6.6 V
		Vdd=5V	—	2.5	4 mA
Backlight current consumption	LED/edge	VB/L=3.3V	—	10	— mA
	LED/array	VB/L=4.2V	—	—	— mA

REMARK

LCD option: STN, TN, FSTN

Backlight Option: LED, EL Backlight feature, other Specs not available on catalog is under request.

