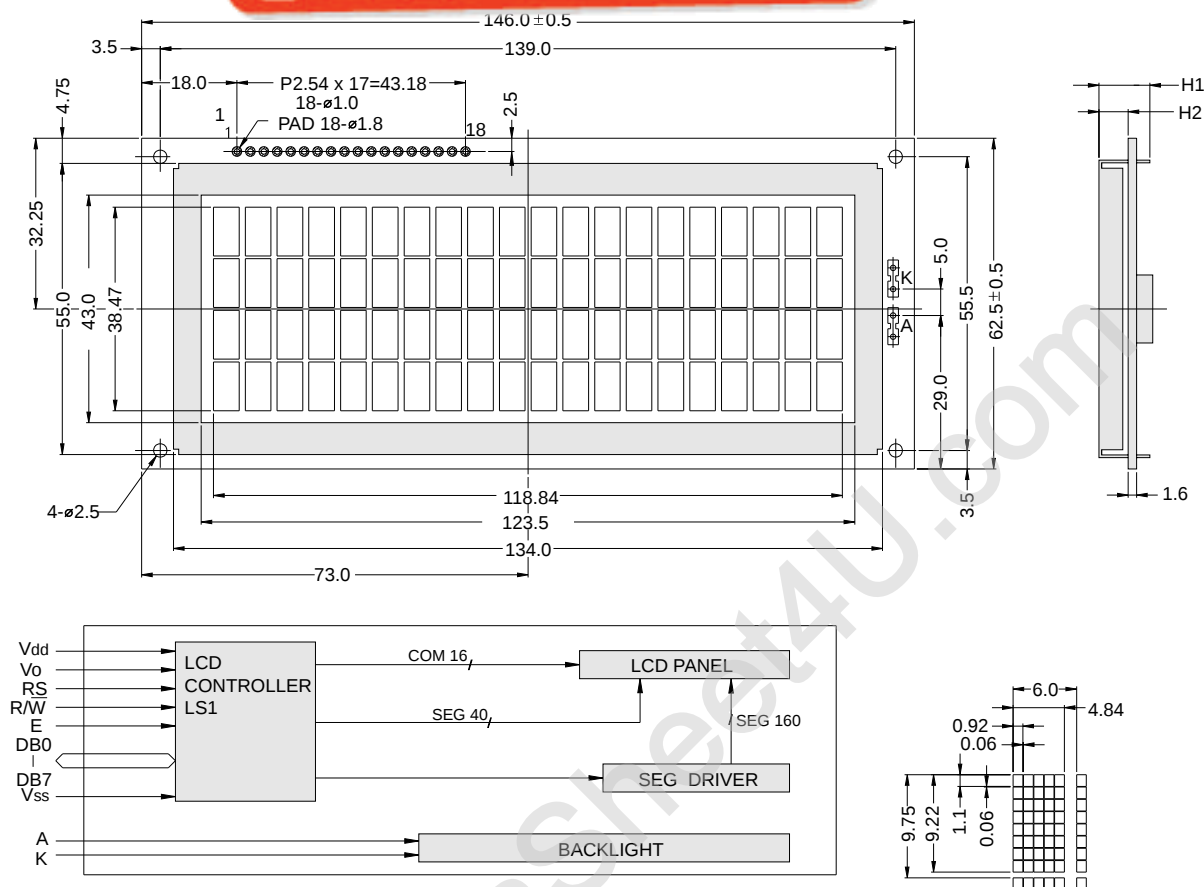


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OUTLINE DIMENSION



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

MECHANICAL SPECIFICATION

Overall Size	146.0 x 62.5	Module	H2 / H1
View Area	123.5 x 43.0	W / O B/L	5.5 / 9.6
Dot Size	0.92 x 1.10	EL B/L	5.5 / 9.6
Dot Pitch	0.98 x 1.16	LED B/L	9.0 / 13.1

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 (-)
17	NC/Vee	Negative voltage
18	NC	No connection

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
		-20°C	—	7.1	—	7.9
		0°C	4.5	—	4.8	—
		25°C	4.1	6.1	4.4	6.4
		50°C	3.8	—	4.1	—
LCM current consumption (No B/L)	Idd	Vdd=5V	—	2.5	4	mA
Backlight current consumption	LED/edge	VB/L=4.2V	—	—	—	mA
	LED/array	VB/L=4.2V	—	770	—	mA

REMARK

LCD option: STN, TN, FSTN

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