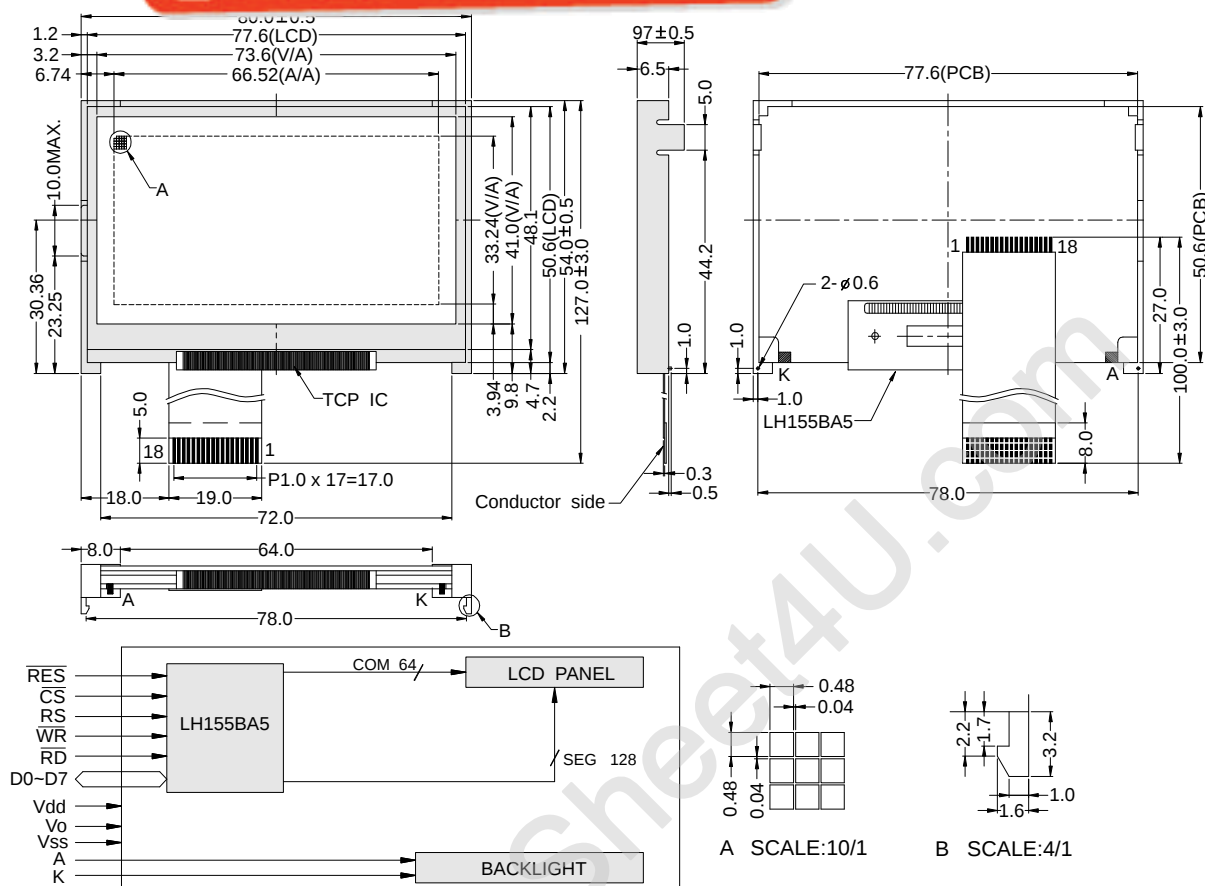


OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION

Overall Size	50.2 x 34.5	Module	H2 / H1
View Area	45.2 x 27.0	W / O B/L	5.2 / 8.2
Dot Size	0.28 x 0.27	EL B/L	- / -
Dot Pitch	0.31 x 0.32	LED B/L	5.2 / 8.2

PIN ASSIGNMENT

Pin no.	Symbol	Function
1	Vss	Power supply(GND)
2	Vdd	Power supply(+)
3	Vo	Contrast Adjust
4	RES	Reset
5	CS	Chip select
6	RS	Command / data select
7	WR	Data write
8	RD	Data read
9-16	DB0-DB7	Data bus line
17	A	Power supply for LED B/L (+)
18	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	6.0	V
LCD driving supply voltage	Vdd-Vee	25°C	-0.3	15.0	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	1.8	—	5.5	V
LCD operation voltage	Vop	Top	N	W	N	W
		-20°C	—	11.4	—	11.6
		0°C	—	—	—	—
		25°C	—	10.3	—	10.5
		50°C	—	—	—	—
LCM current consumption (No B/L)	Idd	Vdd=5V	—	2.5	5	mA
		LED/edge	VB/L=4.2V	80	—	mA
Backlight current consumption	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.