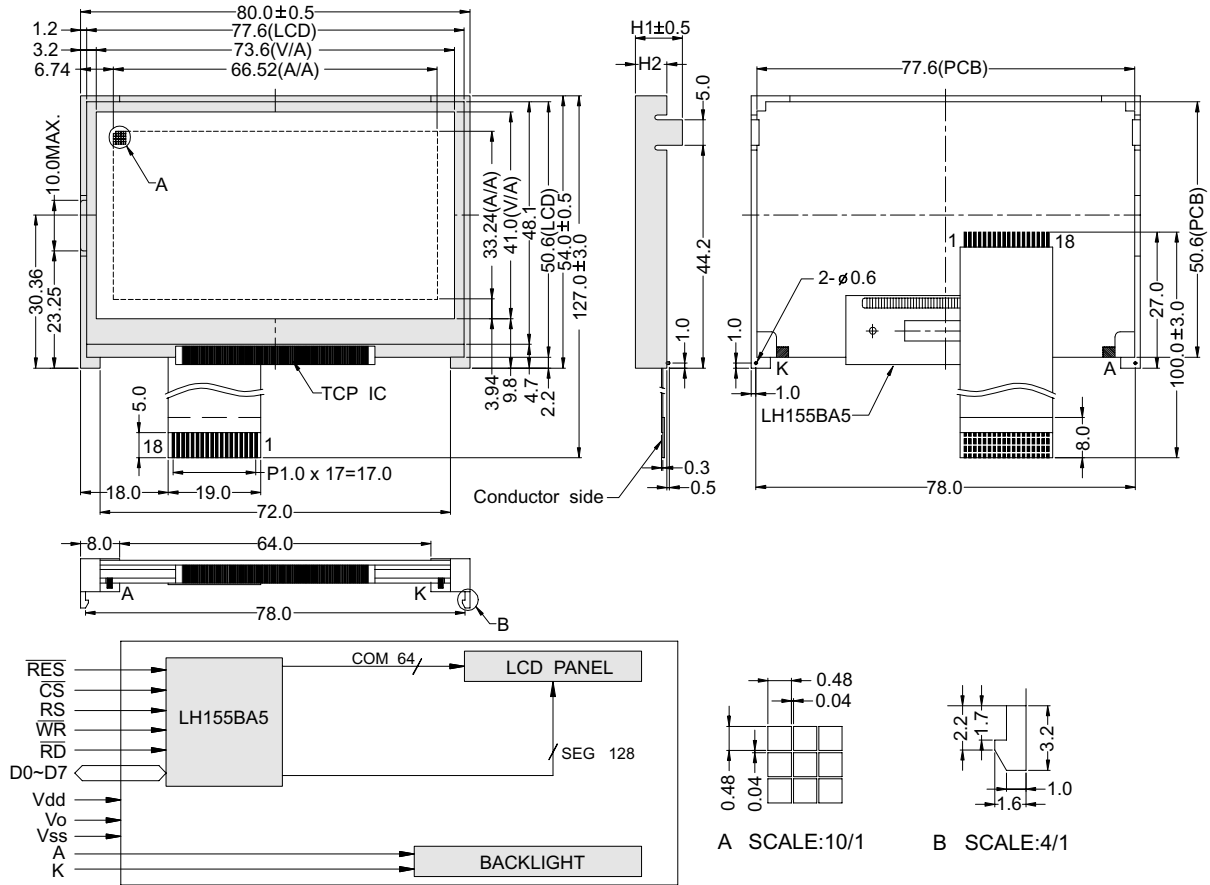




OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION			
Overall Size	80.0 x 54.0	Module	H2 / H1
View Area	73.6 x 41.0	W / O B/L	6.5 / 8.2
Dot Size	0.48 x 0.48	EL B/L	- / -
Dot Pitch	0.52 x 0.52	LED B/L	6.5 / 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	V		
		-20°C	-	11.4	-	11.6	-	10.6	V
		0°C	-	-	-	-	-	-	V
		25°C	-	10.3	-	10.5	-	9.6	V
		50°C	-	-	-	-	-	-	V
		70°C	-	9.0	-	8.2	-	8.6	V
LCM current consumption (No B/L)	Idd	Vdd=5V	-	2.5	5	mA			
Backlight current consumption	LED/edge	VB/L=4.2V	-	80	-	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.

