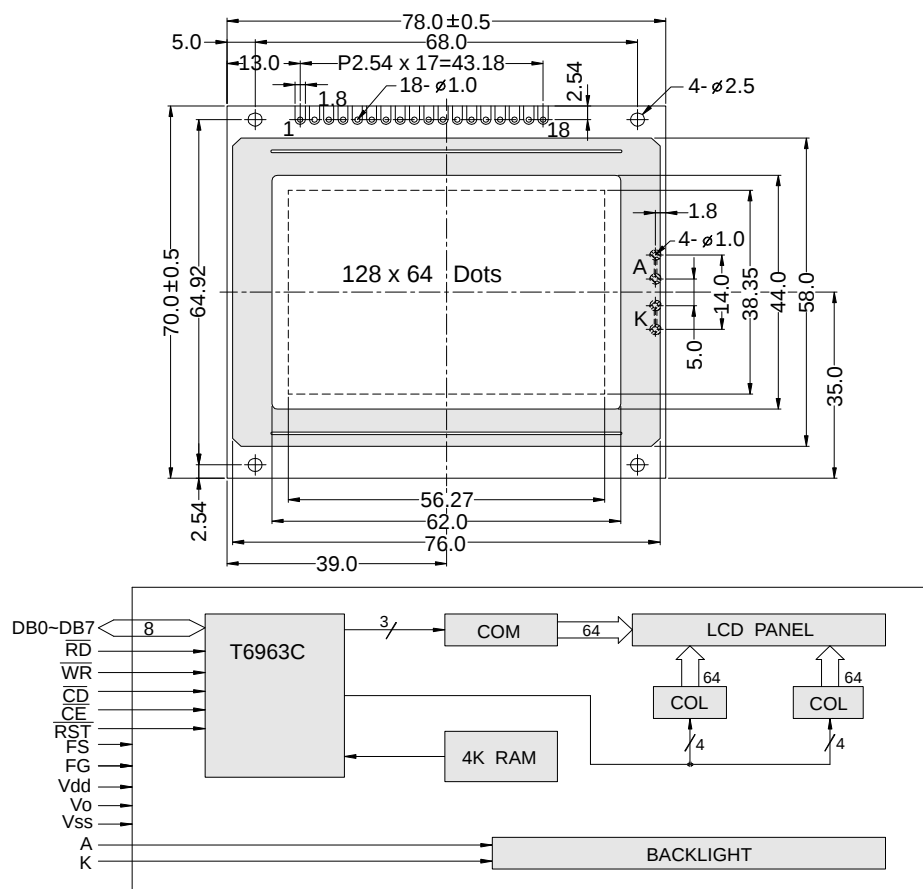


OUTLINE DIMENSION & BLOCK DIAGRAM



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

MECHANICAL SPECIFICATION

Overall Size	78.0 x 70.0	Module	H2 / H1
View Area	62.0 x 44.0	W / O B/L	5.1 / 9.7
Dot Size	0.39 x 0.55	EL B/L	5.1 / 5.7
Dot Pitch	0.44 x 0.60	LED B/L	9.2 / 13.8

PIN ASSIGNMENT

Pin no.	Symbol	Function
1	FG	Frame ground
2	Vss	Power supply(GND)
3	Vdd	Power supply(+)
4	Vo	Contrast Adjust
5	WR	Data write
6	RD	Data read
7	CE	Chip enable
8	CD	Command / data select
9	RST	Reset
10-17	DB0-DB7	Data bus line
18	FS	Font select

ABSOLUTE MAXIMUM RATING

Item	Symbol	Condition	Min.	Max.	Units
Supply for logic voltage	Vdd-Vss	25°C	-0.3	7.0	V
LCD driving supply voltage	Vdd-Vee	25°C	0	22.0	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	4.5	—	5.5	V
LCD operation voltage	Vop	Top	N	W	N	W
		-20°C	—	8.6	—	9.5
		0°C	8.5	—	8.9	—
		25°C	8	8.6	8.4	9
		50°C	7.6	—	8	—
		70°C	—	8	—	8.4
LCM current consumption (No B/L)	Idd	Vdd=5V	—	6.5	—	mA
Backlight current consumption	LED/edge	VB/L=4.2V	—	—	—	mA
	LED/array	VB/L=4.2V	—	350	—	mA

REMARK

LCD option: STN, TN, FSTN

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

