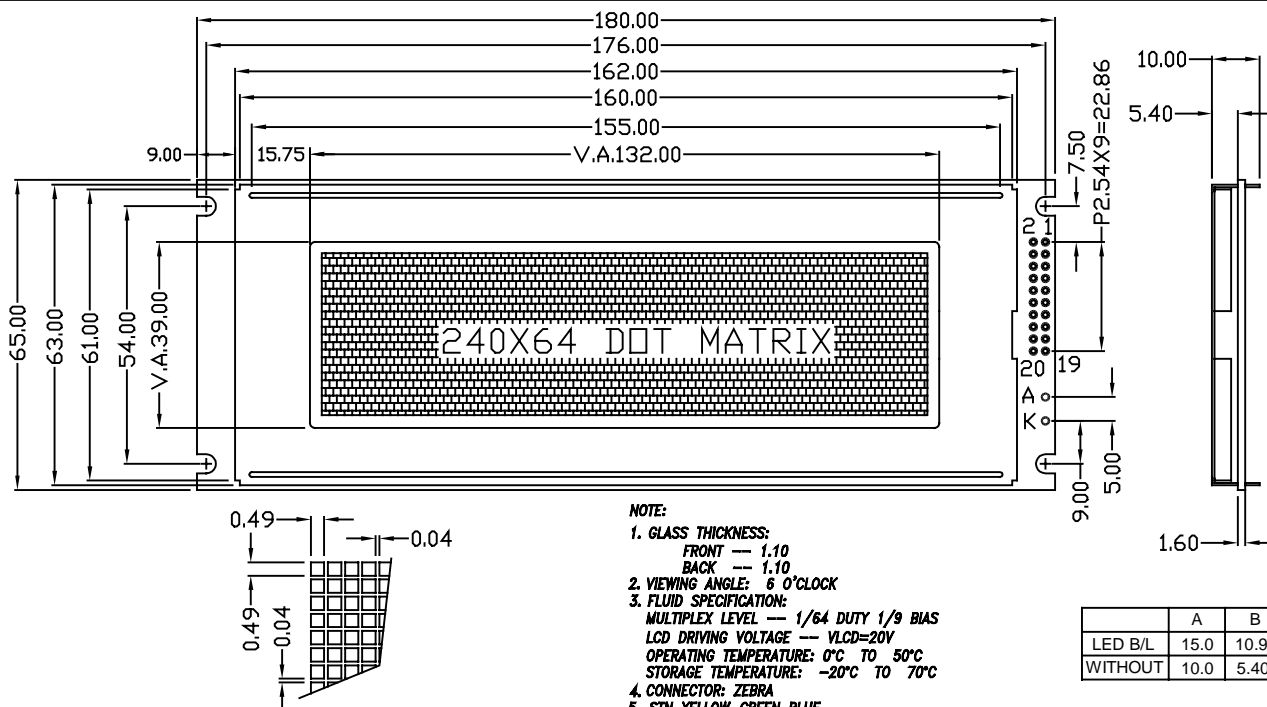


## ① EXTERNAL DIMENSION



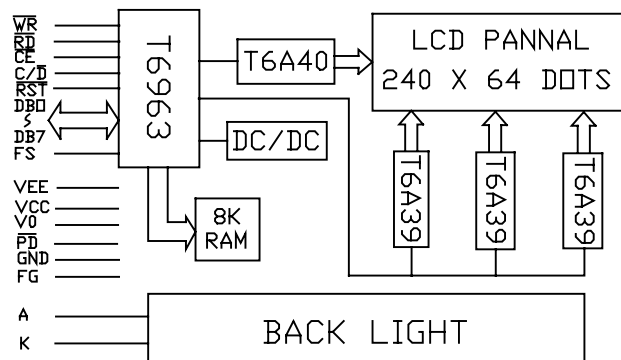
## ② MECHANICAL DATA

ITEM	SPECIFICATION	UNIT
Module Size (W X H X T)	180.0 X 65.0 X 10.0	mm
Module Size With B/L (W X H X T)	180.0 X 65.0 X 15.0	mm
Viewing Area (W X H)	132.0 X 39.0	mm
Number of Dots (W X H)	240 X 64	dots
Dot Pitch (W X H)	0.53 X 0.53	mm
Dot Size (W X H)	0.49 X 0.49	mm
Weight	145.0	g

## ③ PIN CONFIGURATION

ITEM	SYMBOL	DESCRIPTION
1	FG	Connect the metal holder to GND from outside the LCD module
2	GND	0V(GND).
3	VCC	Power supply for logic circuit and LCD.
4	VEE	Power supply for LCD drive circuit .
5	WR	Data write. Write data into T6963C when WR = L .
6	RD	Data read. Write data from T6963C when RD = L .
7	CE	CE must be L when CPU communicates with T6963C.
8	C/D	WR = L RD = L C/D = H : Command Write C/D = H : Status Read C/D = L : Data Write C/D = L : Data Read
9	V0	Measure contrast.
10	RST	When RST = H Normal (T6963C has internal pull-up resistor). When RST = L Initialize T6963C. Text and graphic have address and text and graphic area settings are retained.
11~18	DB0~DB7	Data I/O pins for display memory.
19	FS	Pins for selection of font When FS = H, 6*8 dots font, FS = L, 8*8 dots font
20	PD	When PD = H (Normal) When PD = L ,Stops the oscillation of the clock.

## ④ BLOCK DIAGRAM



## ⑤ ABSOLUTE MAXIMUM RATINGS (25°C)

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Supply Voltage Logic	V <sub>DD</sub>	-0.3	7.0	V
Supply Voltage Driver	V <sub>EE</sub>	V <sub>DD</sub> -30	V <sub>DD</sub> +0.3	V
Input Voltage	V <sub>IN</sub>	V <sub>SS</sub> -0.3	V <sub>DD</sub> +0.3	V