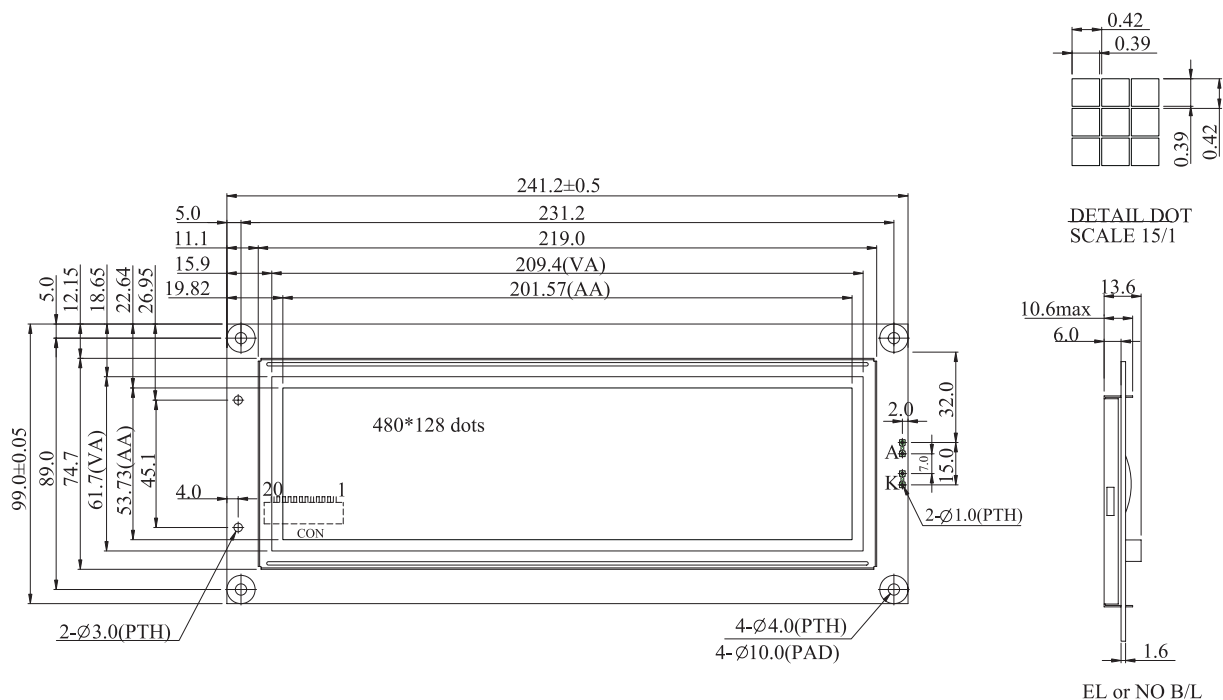


Graphic 480x128 dots **WG480128B****Dimension drawing****Feature**

1. Built in controller EPSON SED1335
2. 1/128 duty cycle
3. Built-in N/V (option)

Pin NO.	Symbol	Function
1	Vss	Ground
2	Vdd	Power supply for Logic
3	Vo	Driving voltage for LCD
4	Ao	Data type select
5	WR	8080 family:Write signal, 6800 family:R/W signal
6	RD	8080 family:Read signal, 6800 family:Enable clock
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	CS	Chip select, Active L
16	RES	Controller reset signal Active L
17	VEE	Negative Voltage output
18	SEL1	H:68, L:80
19	FGND	Frame Ground
20	NC	No connection

Mechanical Data

Item	Standard Value	Unit
Module Dimension	170.0x103.5	mm
Viewing Area	132.0x76.0	mm
Dot Size	0.47x0.47	mm
Dot Pitch	0.5x0.5	mm
Mounting hole	162.0x85.0	mm

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	-0.3	---	VDD	V

Note : VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	L level	0.7V _{DD}	---	V _{DD}	V
	VIO	H level	---	---	0.3V _{DD}	V
Supply Current	IDD	VDD=5V	---	23	---	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	0°C	19.1	19.5	20.1	V
		25°C	18.1	18.5	19.1	
		50°C	17.1	17.5	18.1	
EL	---	Vel=110AC,400HZ	---	---	5.0	mA