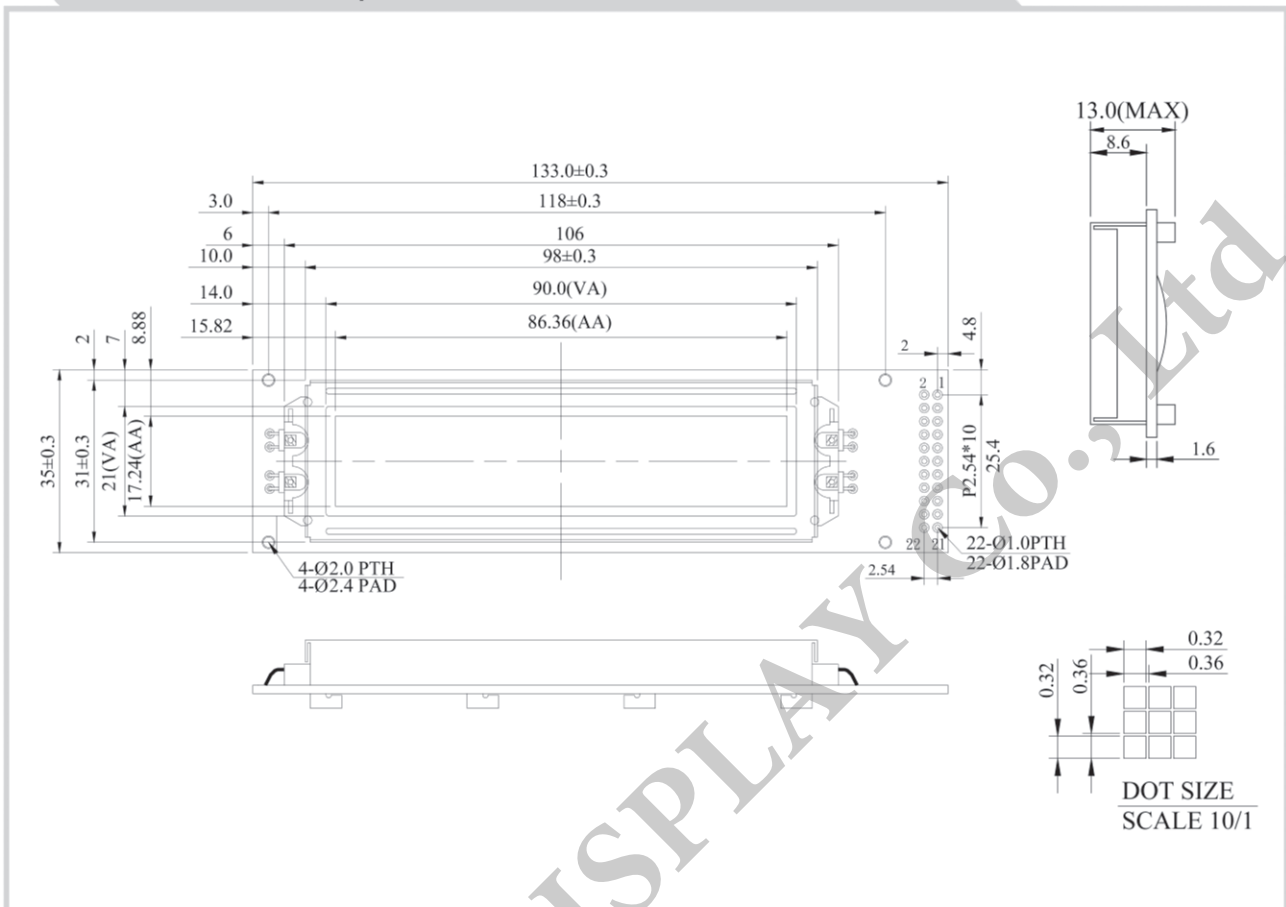


**WG24048A** Graphic 240x48 dots



**Feature**

1. Built-in controller NT7107, NT7108
2. 5V power supply
3. 1/48 duty cycle
4. Built-in N/V

Pin No.	Symbol	Description
1	GND	Ground
2	V <sub>DD</sub>	Power supply for logic
3	V <sub>O</sub>	Contrast Adjustment
4	D/I	Data/ Instruction select signal
5	R/W	Read/Write select signal
6	E	Enable signal
7	RESET	Controller reset signal, Active Low
8	DB0	Data bus line
9	DB1	Data bus line
10	DB2	Data bus line
11	DB3	Data bus line
12	DB4	Data bus line
13	DB5	Data bus line
14	DB6	Data bus line
15	DB7	Data bus line
16	CS1	Chip Select Signal for IC1
17	CS2	Chip Select Signal for IC2
18	CS3	Chip Select Signal for IC3
19	CS4	Chip Select Signal for IC4
20	V <sub>EE</sub>	Negative Voltage Output
21	A	Power supply for B/L +
22	K	Power supply for B/L -

**Mechanical Data**

Item	Standard Value	Unit
Module Dimension	133.0 x 35.0	mm
Viewing Area	90.0 x 21.0	mm
Mounting Hole	118.0 x 31.0	mm
Dot Pitch	0.36 x 0.36	mm
Dot Size	0.32 x 0.32	mm

**Electrical Characteristics**

Item	Symbol	Standard Value	Unit
		typ.	
Input Voltage	V <sub>DD</sub>	5.0	V
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	V <sub>DD-VO</sub>	7.50	V