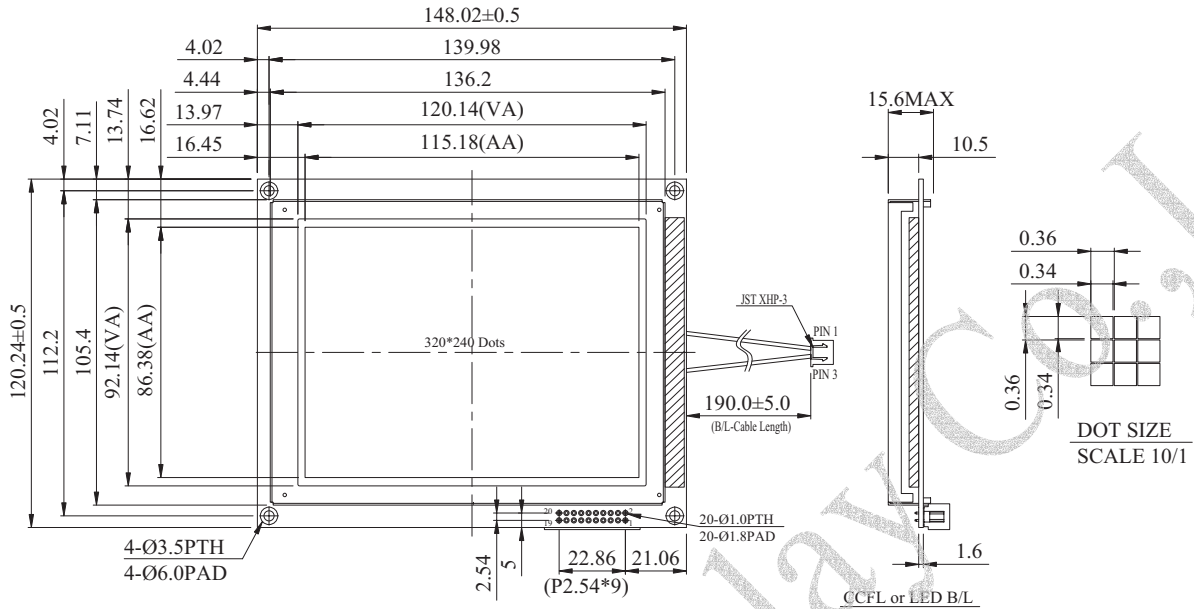




# WG320240CX Graphic 320x240 dots

## Dimension drawing



### Feature

1. Built-in controller Epson-S1D13700
2. Built-in Negative Voltage generator
3. 1/240 duty cycle
4. Touch screen option
5. Temperature compensation option

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	148.02x120.24	mm
Viewing Area	120.14x92.14	mm
Mounting hole	139.98x112.2	mm
Dot Pitch	0.36x0.36	mm

Graphic type

Pin NO.	Symbol	Function
1	Vss	Ground
2	Vdd	Power supply for logic
3	Vo	Driving voltage for LCD
4	$\overline{RD}$	8080 family:Read signal,6800 family:Enable clock
5	WR	8080 family:Write signal,6800 family:R/W signal
6	AO	RD=L WR=H,AO=L:Date Read AO=H:Status read RD=H WR=L,AO=L:Date Write AO=H:Command write
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	$\overline{CS}$	Chip select,Active L
16	$\overline{RES}$	Controller reset signal,Active L
17	Vee	Negative Voltage Output
18	FG	Frame Ground
19	DISPOFF	DISPOFF
20	WAIT	Check busy

### Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.5	5.0	5.5	V
Input Voltage	VI	0	---	VDD	V

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

### Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	---	4.75	5.0	5.25	V
Supply Current	IDD	VDD=5V	65.0	75.0	85.0	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	---	---	24.4	V
		25°C	---	23.8	---	
		70°C	23.4	---	---	
CCFL Starting	VFLS	25°C	---	600	---	Vrms
CCFL Driving Voltage	VFLD	25°C	---	270	---	Vrms
CCFL Driving Current	IFLD	VFO=450Vrms 30KHz	4.8	5.3	5.5	mA <sub>rms</sub>
LED Forward Voltage	VF	25°C	3.4	3.5	3.6	V
LED Forward Current	IF	25°C	140	160	200	mA
EL Power Supply Current	IEF	Vel=110VAC;400Hz	---	---	5.0	mA