SPECIFICATION

MODULE NO.:　　　　WG320240BX

General Specification

Item	Dimension	Unit
Number of dots	320 x 240	—
Module dimension	160.0 x 109.0 x 13.0(MAX)	mm
View area	122.0 x 92.0	mm
Active area	115.18 x 86.38	mm
Dot size	0.34 x 0.34	mm
Dot pitch	0.36 x 0.36	mm
Duty	1/240	
Backlight Type	LED	
IC	S1D 13700	
Interface	8080	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_{IN}	-0.3	—	$V_{DD}+0.5$	V
Output Voltage	V_{OUT}	-0.3	—	$V_{DD}+0.5$	V
Supply Voltage For Logic	V_{DD}-V_{SS}	0	—	6.5	V
Supply Voltage For LCD	V_{DD}-V_0	0	—	32	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}-V_{SS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD	V_{DD}-V_0	Ta=-20℃	—	—	26.1	V
		Ta=25℃	23.0	23.6	24.2	V
		Ta=70℃	22.2	—	—	V
Input High Volt.	V_{IH}	—	3.5	—	—	V
Input Low Volt.	V_{IL}	—	—	—	1.0	V
Output High Volt.	V_{OH}	—	V_{DD}-0.4	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	V_{DD}=5.0V	35.0	65.0	110.0	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Power supply for Logic
3	V0	(Variable)	Driving voltage for LCD
4	A0	H/L	RD=L WR=H ,A0=L :Data Read AO=H :Status read RD=H WR=L ,A0=L :Data Write AO=H :Command write
5	WR‾	H/L	8080 family: Write signal, 6800 family: R/W signal
6	RD‾	H/L	8080 family: Read signal, 6800 family: Enable clock
7~14	DB0~DB7	H/L	Data bus line
15	CS‾	H/L	Chip select ,Active L
16	RES‾	H/L	Controller reset signal, Active L
17	Vee	—	Negative Voltage Output
18	NC		No connection
19	FG	—	Frame Ground
20	WAIT	—	Check Busy

Contour Drawing
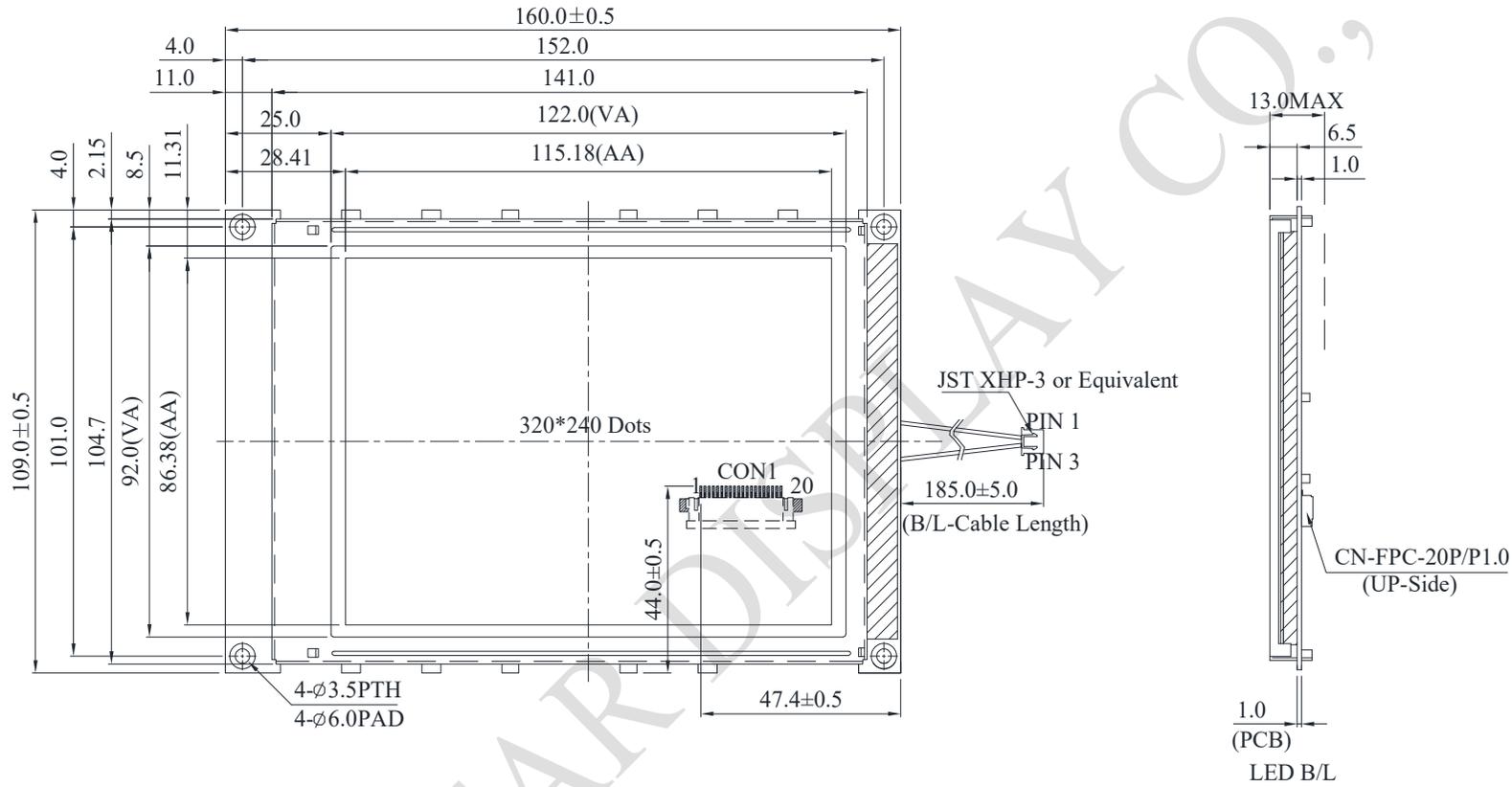
Pin No.	Symbol
1	Vss
2	Vdd
3	Vo
4	A0
5	$\overline{WR}$
6	$\overline{RD}$
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	$\overline{CS}$
16	$\overline{RES}$
17	Vee
18	NC
19	FG
20	WAIT

160.0±0.5
152.0
141.0
122.0(VA)
115.18(AA)
4.0
11.0
25.0
28.41
4.0
2.15
8.5
11.31
109.0±0.5
101.0
104.7
92.0(VA)
86.38(AA)

320*240 Dots

CON1
1   20

44.0±0.5
47.4±0.5

4-∅3.5PTH
4-∅6.0PAD

JST XHP-3 or Equivalent
PIN 1
PIN 3
185.0±5.0
(B/L-Cable Length)

13.0MAX
6.5
1.0

CN-FPC-20P/P1.0
(UP-Side)

1.0
(PCB)
LED B/L

0.36
0.34
0.36
0.34
DOT SIZE
SCALE 10/1
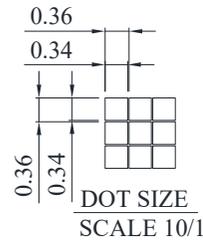
The non-specified tolerance of dimension is ±0.3mm.