



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.:

WG320240CX

General Specification

Item	Dimension	Unit
Number of dots	320 x 240	—
Module dimension	148.02x 120.24x 15.6 (MAX)	mm
View area	120.14 x 92.14	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	S1D13700	
Interface	8080	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Input Voltage	V_{IN}	-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

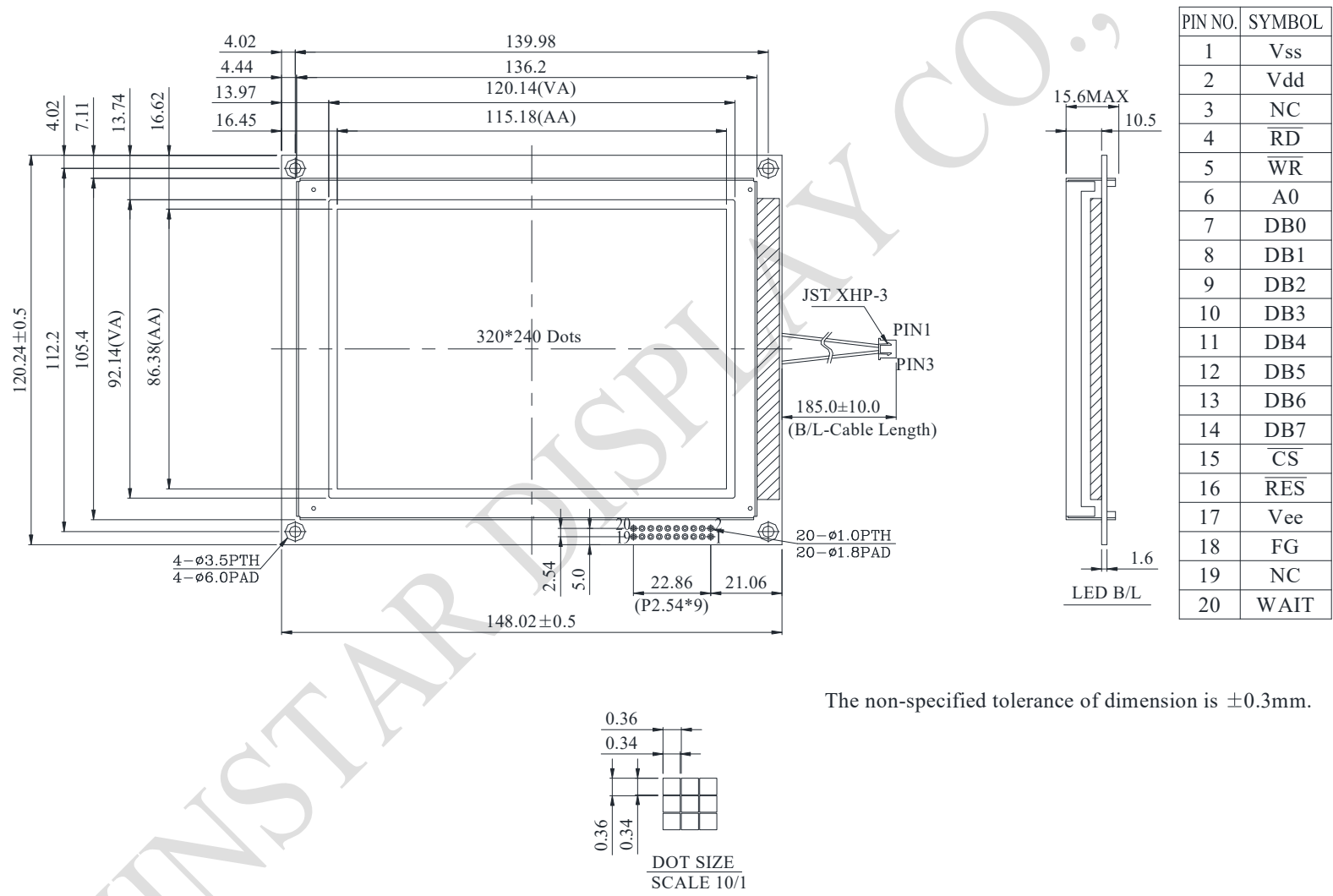
Electrical Characteristics

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	$V_{DD}-V_0$	$T_a=-20^{\circ}\text{C}$	—	—	—	V
		$T_a=25^{\circ}\text{C}$	—	—	—	V
		$T_a=70^{\circ}\text{C}$	—	—	—	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}	$V_{DD}=5.0\text{V}$	65.0	75.0	85.0	mA

Interface Pin Function

Pin No.	Symbol	Level	Description
1	V _{SS}	0V	Ground
2	V _{DD}	5.0V	Power supply for Logic
3	NC	—	No connection
4	/RD	H/L	8080 family: Read signal, 6800 family: Enable clock
5	/WR	H/L	8080 family: Write signal, 6800 family: R/W signal
6	A0	H/L	RD=L WR=H. A0=L: Data Read A0=H: Status Read RD=H WR=L. A0=L: Data Write A0=H: Command Write
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	V _{EE}	—	Negative voltage output
18	FGND	—	Frame Ground
19	NC	—	No Connection
20	WAIT	—	Check busy

Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.