



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



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SPECIFICATION

MODULE NO.:

WG320240C0

General Specification

Item	Dimension	Unit
Number of dots	320 x 240	—
Module dimension	148.02 x 120.24 x 16.0 (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	RA8835	
Interface	68 series	

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	—	$V_{DD}+0.3$	V
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	7.0	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 * Note	$V_{DD}-V_0$	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	—	—	—	V
		$T_a=70^{\circ}C$	—	—	—	V
Input High Volt.	V_{IH}	—	$0.5V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	V_{SS}	—	$0.2V_{DD}$	V
Output High Volt.	V_{OH}	—	$V_{DD}-0.4$	—	—	V
Output Low Volt.	V_{OL}	—	—	—	$V_{SS}+0.4$	V
Supply Current	I_{DD}	$V_{DD}=5.0V$	90.0	100.0	105.0	mA

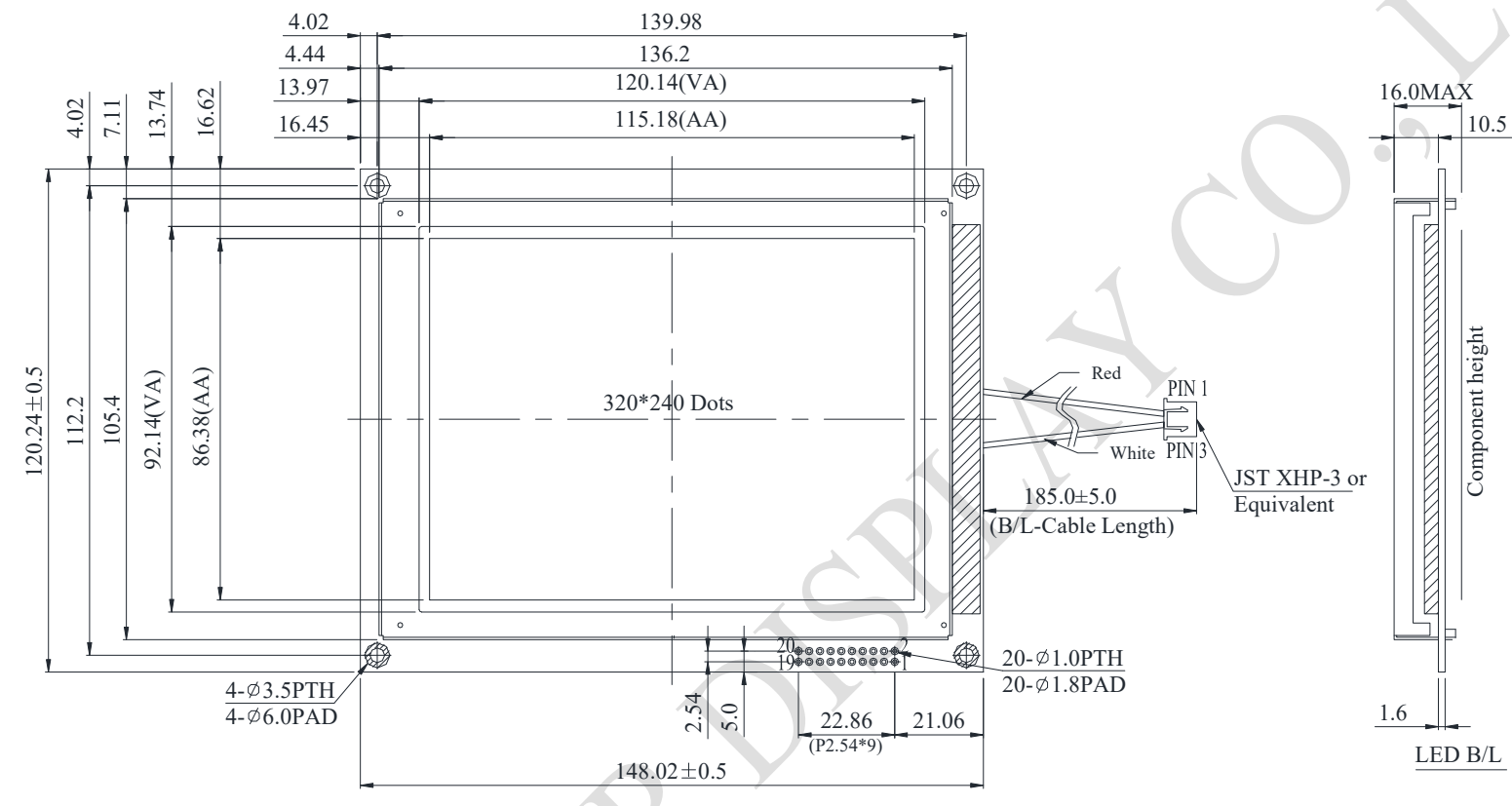
* Note: The VOP of best contrast adjust via VR resistor

Interface Pin Function

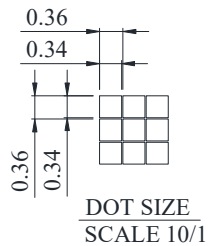
For 68 Family

Pin No.	Symbol	Level	Description
1	VSS	0V	GND
2	VDD	5.0V	Power supply for Logic
3	VO		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		Data type select
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	FGND		Frame Ground
19	NC		No connection
20	NC		No connection

Contour Drawing & Block Diagram



PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RD
5	WR
6	A0
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	CS
16	RES
17	Vee
18	FGND
19	NC
20	NC



The non-specified tolerance of dimension is ±0.3mm.