Winstar Display Co., LTD
華凌光電股份有限公司
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SPECIFICATION

MODULE NO.: WF80-800480BD#AW1-FC

General Specifications

Item	Dimension	Unit
Size	8.0	inch
Dot Matrix	800 xRGBx480(TFT)	dots
Module dimension	192.80 x 116.90 x 8.1	mm
Active area	176.64 x99.36	mm
Dot pitch	0.0736 x 0.2070	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED,Normally White	
With /Without TP	With RTP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-30	—	+85	℃
Storage Temperature	T_{ST}	-30	—	+85	℃
Power voltage	VCC	-0.3	—	5.0	V
	AVDD	6.5	—	13.5	V
	VGH	-0.3	—	40.0	V
	VGL	-20.0	—	0.3	V
	VGH-VGL	-	—	40.0	V

Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Power voltage	VCC	3.0	3.3	3.6	V
	AVDD	10.2	10.4	10.6	V
	VGH	15.3	16.0	16.7	V
	VGL	-7.7	-7.0	-6.3	V
Input signal voltage	VCOM	3.4	4.4	5.4	V

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Interface

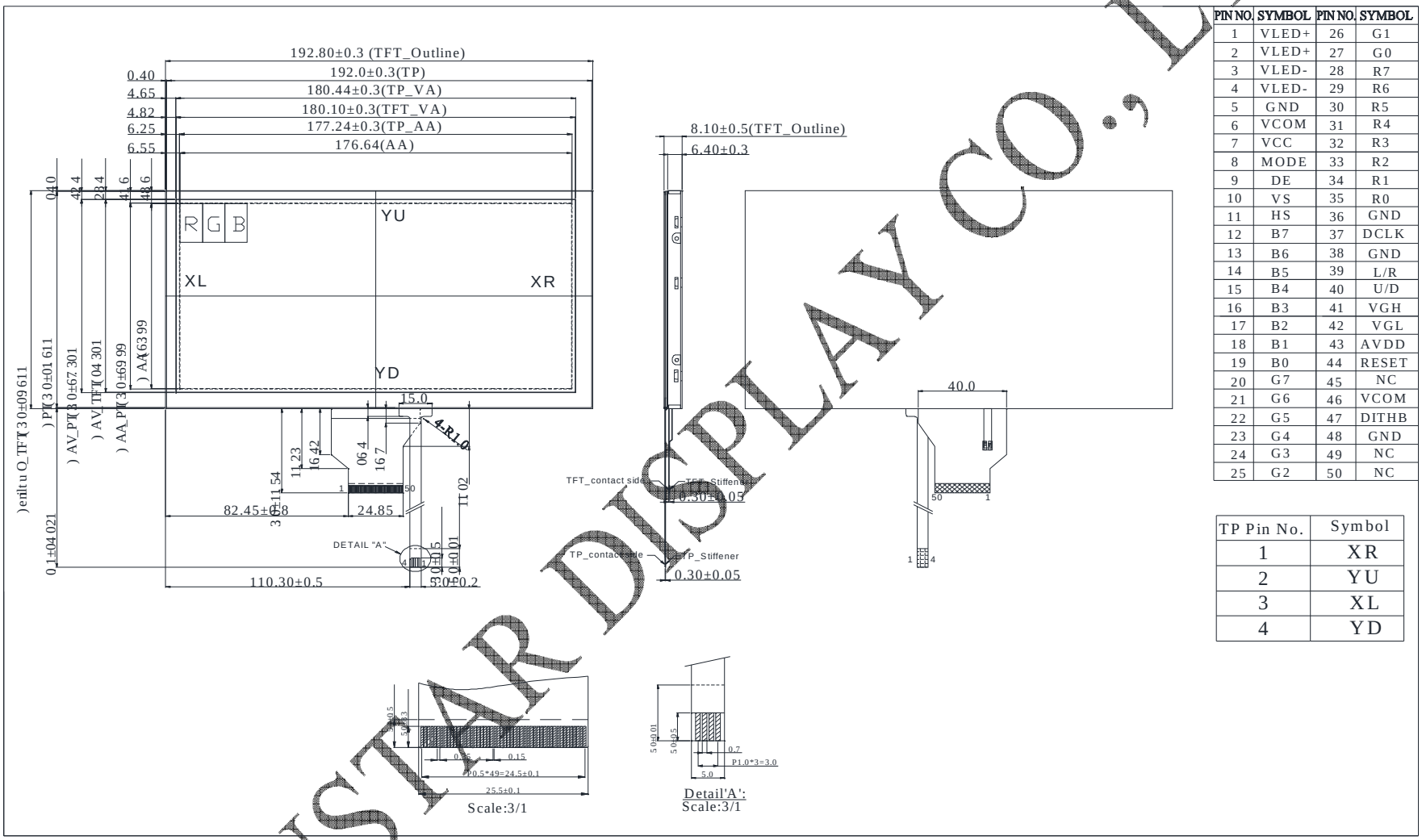
Pin	Symbol	I/O	Function
1	VLED+	P	Power for LED backlight(Anode)
2	VLED+	P	Power for LED backlight(Anode)
3	VLED-	P	Power for LED backlight(Cathode)
4	VLED-	P	Power for LED backlight(Cathode)
5	GND	P	Power ground
6	VCOM	I	Common voltage
7	VCC	P	Power for Digital Circuit
8	MODE	I	DE/SYNC mode select
9	DE	I	Data Input Enable
10	VS	I	Vertical Sync Input
11	HS	I	Horizontal Sync Input
12	B7	I	Blue data(MSB)
13	B6	I	Blue data
14	B5	I	Blue data
15	B4	I	Blue data
16	B3	I	Blue data
17	B2	I	Blue data
18	B1	I	Blue data
19	B0	I	Blue data(LSB)
20	G7	I	Green data(MSB)
21	G6	I	Green data
22	G5	I	Green data
23	G4	I	Green data
24	G3	I	Green data
25	G2	I	Green data
26	G1	I	Green data
27	G0	I	Green data(LSB)
28	R7	I	Red data(MSB)
29	R6	I	Red data
30	R5	I	Red data
31	R4	I	Red data
32	R3	I	Red data
33	R2	I	Red data
34	R1	I	Red data
35	R0	I	Red data(LSB)
36	GND	P	Power Ground
37	DCLK	I	Sample clock
38	GND	P	Power Ground

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39	L/R	I	Left / right selection
40	U/D	I	Up/down selection
41	VGH	P	Gate ON Voltage
42	VGL	P	Gate OFF Voltage
43	AVDD	P	Power for Analog Circuit
44	RESET	I	Global reset pin.
45	NC	-	No connection
46	VCOM	I	Common Voltage
47	DITHB	I	Dithering function
48	GND	P	Power Ground
49	NC	-	No connection
50	NC	-	No connection

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Contour Drawing



PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VLED+	26	G1
2	VLED+	27	G0
3	VLED-	28	R7
4	VLED-	29	R6
5	GND	30	R5
6	VCOM	31	R4
7	VCC	32	R3
8	MODE	33	R2
9	DE	34	R1
10	VS	35	R0
11	HS	36	GND
12	B7	37	DCLK
13	B6	38	GND
14	B5	39	L/R
15	B4	40	U/D
16	B3	41	VGH
17	B2	42	VGL
18	B1	43	AVDD
19	B0	44	RESET
20	G7	45	NC
21	G6	46	VCOM
22	G5	47	DITHB
23	G4	48	GND
24	G3	49	NC
25	G2	50	NC

TP Pin No.	Symbol
1	XR
2	YU
3	XL
4	YD

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