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

MODULE NO.: WF50-7201280DM#0P15-FC

General Specifications

Item	Dimension	Unit
Size	5.0	inch
Dot Matrix	720× 3(RGB) ×1280	dots
Module dimension	73.3 (W) × 127.6 (H) ×3.45	mm
Active area	62.1 (W) × 110.4 (H)	mm
Dot pitch	0.08625(W) × 0.08625(H)	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing angle	80/80/80/80	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
PCAP FW Version	0x5F	
PCAP IC	GT928	
Touch Panel	With PCAP	
Surface	Glare	

*Color tone slight changed by temperature and driving voltage.

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first components

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Values			Unit
		Min	Typ	Max	
Power supply for analog circuit	VCI	2.5	3.3	3.6	V
Power supply for logic circuit	IOVCC	1.65	1.8	3.6	V
Supply Voltage For Touch Logic	VDDT	2.8	-	3.3	V
Current for Driver	IDD	-	44	-	mA

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Interface

1. LCM PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	NC	No connection
3	NC	No connection
4	NC	No connection
5	NC	No connection
6	NC	No connection
7	NC	No connection
8	NC	No connection
9	NC	No connection
10-11	VCI	Power supply for analog circuits. Connect to an external power supply of 2.5V to 3.6V
12-13	NC	No connection
14	RESET	The external reset input Initializes the chip with a low input. Be sure to execute a power-on reset after supplying power. Fix to VDDI level when not in use.
15	TE	Tearing effect output pin. Leave the pin open when not in use.
16	NC	No connection
17-18	GND	Power ground
19-20	IOVCC	Power supply for analog circuits. Connect to an external power supply of 1.65V to 3.6V
21	GND	Power ground
22	D3P	MIPI DSI differential data pair. (Data lane 3)
23	D3N	
24	GND	Power ground
25	D2P	MIPI DSI differential data pair. (Data lane 2)
26	D2N	
27	GND	Power ground
28	CLKP	MIPI DSI differential clock pair
29	CLKN	
30	GND	Power ground
31	D1P	MIPI DSI differential data pair. (Data lane 1)
32	D1N	
33	GND	Power ground
34	D0P	MIPI DSI differential data pair. (Data lane 0)
35	D0N	
36-37	GND	Power ground
38	LED+	Power for LED backlight anode
39	LED1-	Power for LED1 backlight cathode
40	LED2-	Power for LED2 backlight cathode

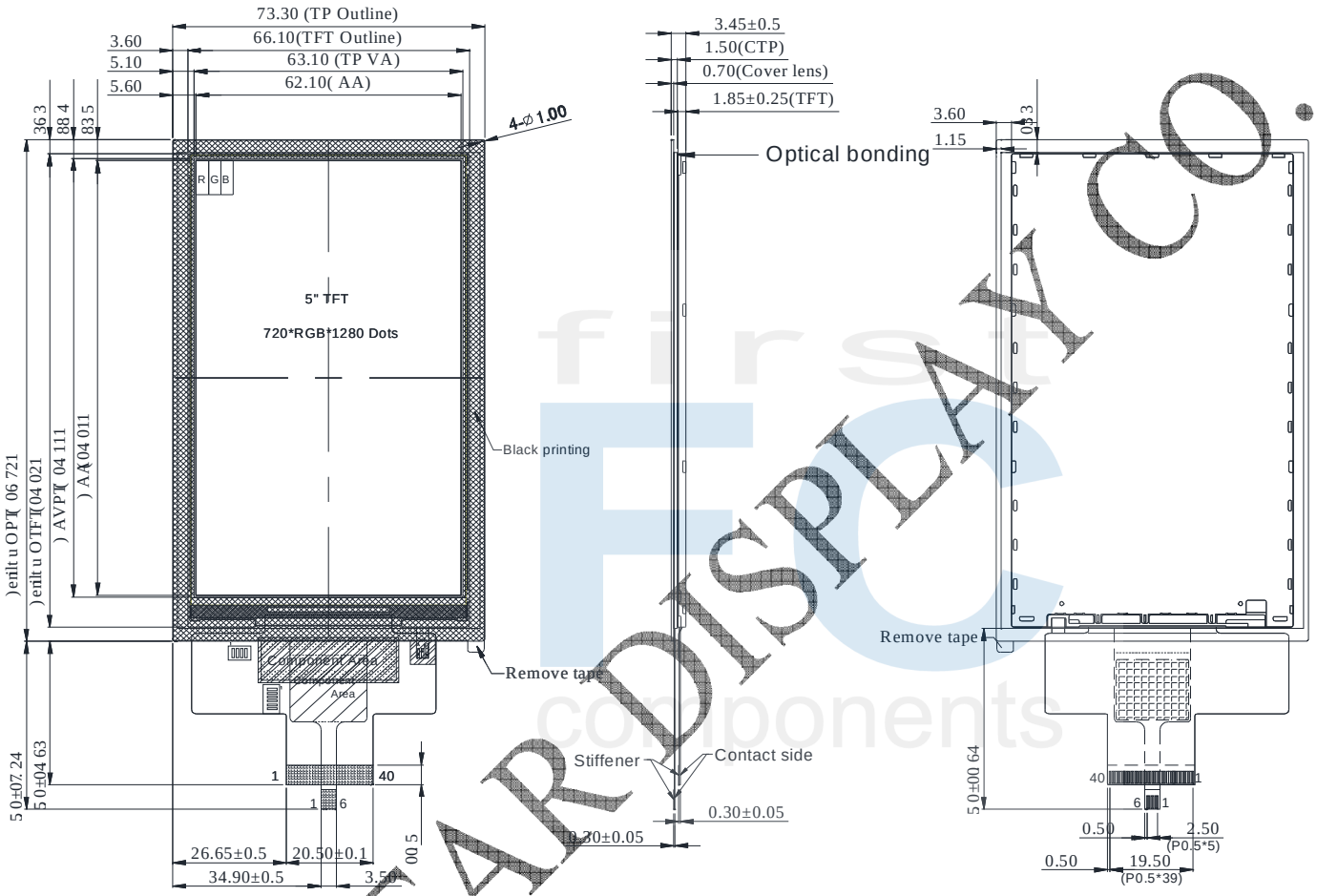
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2. PCAP PIN Definition

Pin	Symbol	Function
1	SDA	I2C data input and output
2	SCL	I2C clock input
3	RST	External Reset, Low is active
4	INT	External interrupt to the host
5	VDD	Power Supply : +3.3V
6	GND	Ground for analog circuit

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Contour Drawing



PIN NO.	SYMBOL
1	SDA
2	SCL
3	RST
4	INT
5	VDDT
6	GND

PIN No.	Pin Name
1	NC
2	NC
3	NC
4	NC
5	NC
6	NC (YU)
7	NC (XL)
8	NC (YD)
9	NC (XR)
10	VCI
11	VCI
12	NC
13	NC
14	RESET
15	TE
16	NC
17	GND
18	GND
19	IOVCC
20	IOVCC
21	GND
22	D3P
23	D3N
24	GND
25	D2P
26	D2N
27	GND
28	CLKP
29	CLKN
30	GND
31	D1P
32	D1N
33	GND
34	D0P
35	D0N
36	GND
37	GND
38	LED+
39	LED1-
40	LED2-

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

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