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

MODULE NO.: WF39-480128ED#0SPW3-FC

General Specifications

Item	Dimension	Unit
Size	3.9	inch
Dot Matrix	480 x RGBx128(TFT)	dots
Module dimension	105.5(W) x 37.0(H) x 5.2(D)	mm
Active area	95.04 x 25.34	mm
Pixel pitch	0.198 x 0.198	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	80/80/80/80	
Aspect Ratio	Bar Type	
TFT Driver IC	SC7283 or equivalent	
Interface	24-bit RGB	
Backlight Type	LED,Normally White	
CTP IC	GT911 or equivalent	
CTP FW Version	0X99	
CTP Interface	I2C	
CTP Resolution	480*128	
Touch Panel	With Capacitive Touch Screen (CTP)	
Surface	Glare	

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	–	+85	℃
Storage Temperature	TST	-30	–	+85	℃

Electrical Characteristics

Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	3.0	–	3.6	V
Supply Current For LCM	ICC	–	20	30	mA
Supply CTP	VDDT	2.8	–	3.3	V
	I_{VDDT}	–	7	10.5	mA

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Interface

LCM PIN Definition

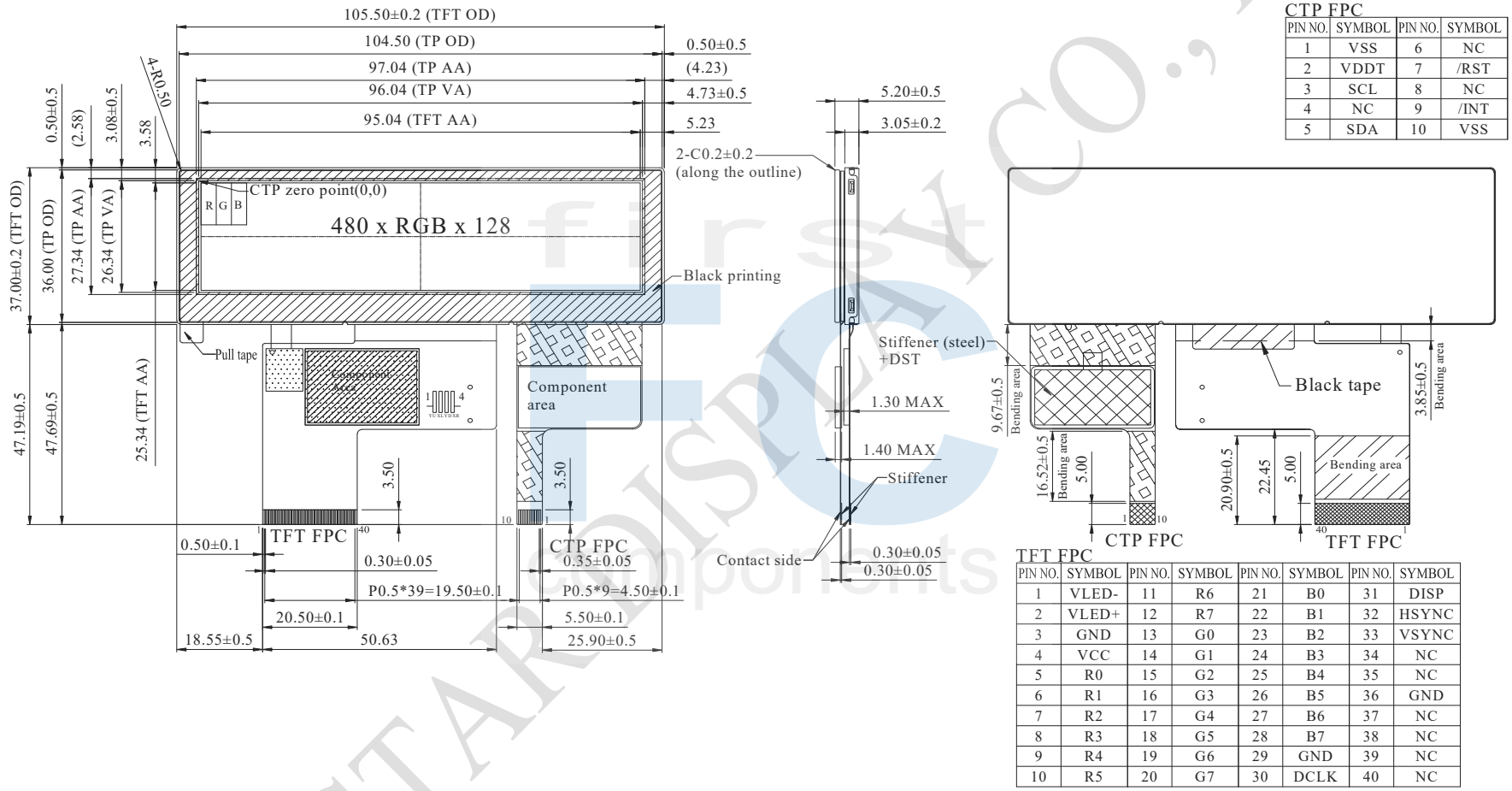
Pin	Symbol	Function
1	VLED-	Power for LED backlight cathode
2	VLED+	Power for LED backlight anode
3	GND	Power ground
4	VCC	Power voltage
5	R0	Red data
6	R1	Red data
7	R2	Red data
8	R3	Red data
9	R4	Red data
10	R5	Red data
11	R6	Red data
12	R7	Red data
13	G0	Green data
14	G1	Green data
15	G2	Green data
16	G3	Green data
17	G4	Green data
18	G5	Green data
19	G6	Green data
20	G7	Green data
21	B0	Blue data
22	B1	Blue data
23	B2	Blue data
24	B3	Blue data
25	B4	Blue data
26	B5	Blue data
27	B6	Blue data
28	B7	Blue data
29	GND	Power ground
30	DCLK	Pixel clock input pin

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<table>
<tr><td>31</td><td>DISP</td><td>DISP sets the display mode.<table><tr><th>DISP</th><th>Function Description</th></tr><tr><td>L</td><td>Standby mode</td></tr><tr><td>H</td><td>Normal display mode</td></tr></table></td></tr>
<tr><td>32</td><td>HSYNC</td><td>Horizontal sync signal, default is negative polarity.</td></tr>
<tr><td>33</td><td>VSYNC</td><td>Vertical sync signal, default is negative polarity.</td></tr>
<tr><td>34</td><td>NC</td><td>No connection</td></tr>
<tr><td>35</td><td>NC</td><td>No connection</td></tr>
<tr><td>36</td><td>GND</td><td>Power ground</td></tr>
<tr><td>37</td><td>NC</td><td>No connection</td></tr>
<tr><td>38</td><td>NC</td><td>No connection</td></tr>
<tr><td>39</td><td>NC</td><td>No connection</td></tr>
<tr><td>40</td><td>NC</td><td>No connection</td></tr>
</table>

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Contour Drawing



CTP FPC

PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VSS	6	NC
2	VDDT	7	/RST
3	SCL	8	NC
4	NC	9	/INT
5	SDA	10	VSS

TFT FPC

PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VLED-	11	R6	21	B0	31	DISP
2	VLED+	12	R7	22	B1	32	HSYNC
3	GND	13	G0	23	B2	33	VSYNC
4	VCC	14	G1	24	B3	34	NC
5	R0	15	G2	25	B4	35	NC
6	R1	16	G3	26	B5	36	GND
7	R2	17	G4	27	B6	37	NC
8	R3	18	G5	28	B7	38	NC
9	R4	19	G6	29	GND	39	NC
10	R5	20	G7	30	DCLK	40	NC

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

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