TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司

Represented by:

first FC components
FIRST Components s.r.l.
www.first-components.com
technical@first-components.com
+39 0332 1888005

Winstar Display Co., LTD
華凌光電股份有限公司

SPECIFICATION

MODULE NO.: WF43-800480XD#0SPW0-FC

General Specification

Item	Dimension	Unit
Size	4.3	inch
Dot Matrix	800 x RGB x 480 (TFT)	dots
Module dimension	105.5(W) x 67.2(H) x 3.76(D)	mm
Active area	95.04 x 53.856	mm
Pixel pitch	0.1188 x 0.1122	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	80/80/80/80	
Aspect Ratio	16:9	
TFT Driver IC	HX8264+HX8664 or equivalent	
TFT Interface	24-bit RGB	
Backlight Type	LED,Normally White	
Touch Panel	Without Touch Panel	
Surface	Glare	

First FC components

Absolute Maximum Ratings

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

Electrical Characteristics

1. Operating conditions:

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	VCC	3.0	3.3	3.6	V
Supply Current For LCM	ICC	-	60	90	mA

2. LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	60	-	mA
LED voltage	VLED+	21.6	24.0	26.0	V
LED Life Time	-	-	50,000	-	Hr

first components

Interface

1. LCM PIN Definition

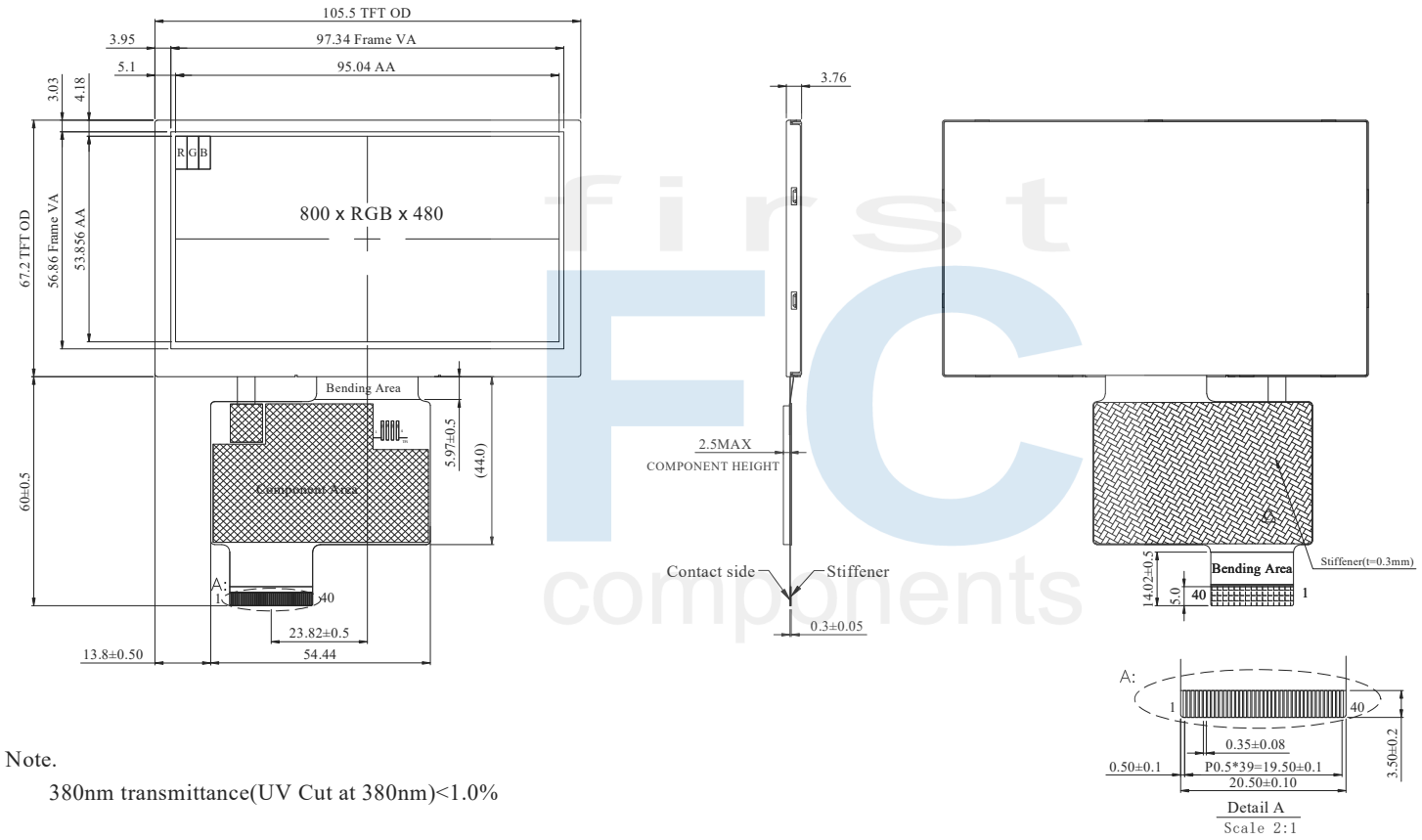
Pin	Symbol	Function
1	VLED-	Power for LED backlight cathode
2	VLED+	Power for LED backlight anode
3	GND	Power ground
4	VCC	Power voltage
5	R0	Red data
6	R1	Red data
7	R2	Red data
8	R3	Red data
9	R4	Red data
10	R5	Red data
11	R6	Red data
12	R7	Red data
13	G0	Green data
14	G1	Green data
15	G2	Green data
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	CLK	Pixel clock input pin

first components

<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 Input. Negative polarity</td></tr>
<tr><td>33</td><td>VSYNC</td><td>Vertical Sync Input. 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>

first FC components

Contour Drawing



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

Note.

380nm transmittance(UV Cut at 380nm)<1.0%

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

first FC components