TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.

華凌光電股份有限公司

SPECIFICATION

MODULE NO.: WF43WTWAEDNN0#

General Specifications

Item	Dimension	Unit
Size	4.3	inch
Dot Matrix	480 x RGB x 272(TFT)	dots
Module dimension	105.5(W) x 67.2(H) x 2.95(D)	mm
Active area	95.04 x 53.856	mm
Dot pitch	0.066 x 0.198	mm
LCD type	TFT, Normally Black, Transmissive	
Viewing Angle	80/80/80/80	
Aspect Ratio	16:9	
TFT Driver IC	SC7283 or equivalent	
Interface	24-bit RGB	
Backlight Type	LED, Normally White	
Touch Panel	Without Touch Panel	
Surface	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	TOP	-30	—	+80	℃
Storage Temperature	TST	-30	—	+80	℃

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	-	25	37.5	mA

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Interface

LCM PIN Definition

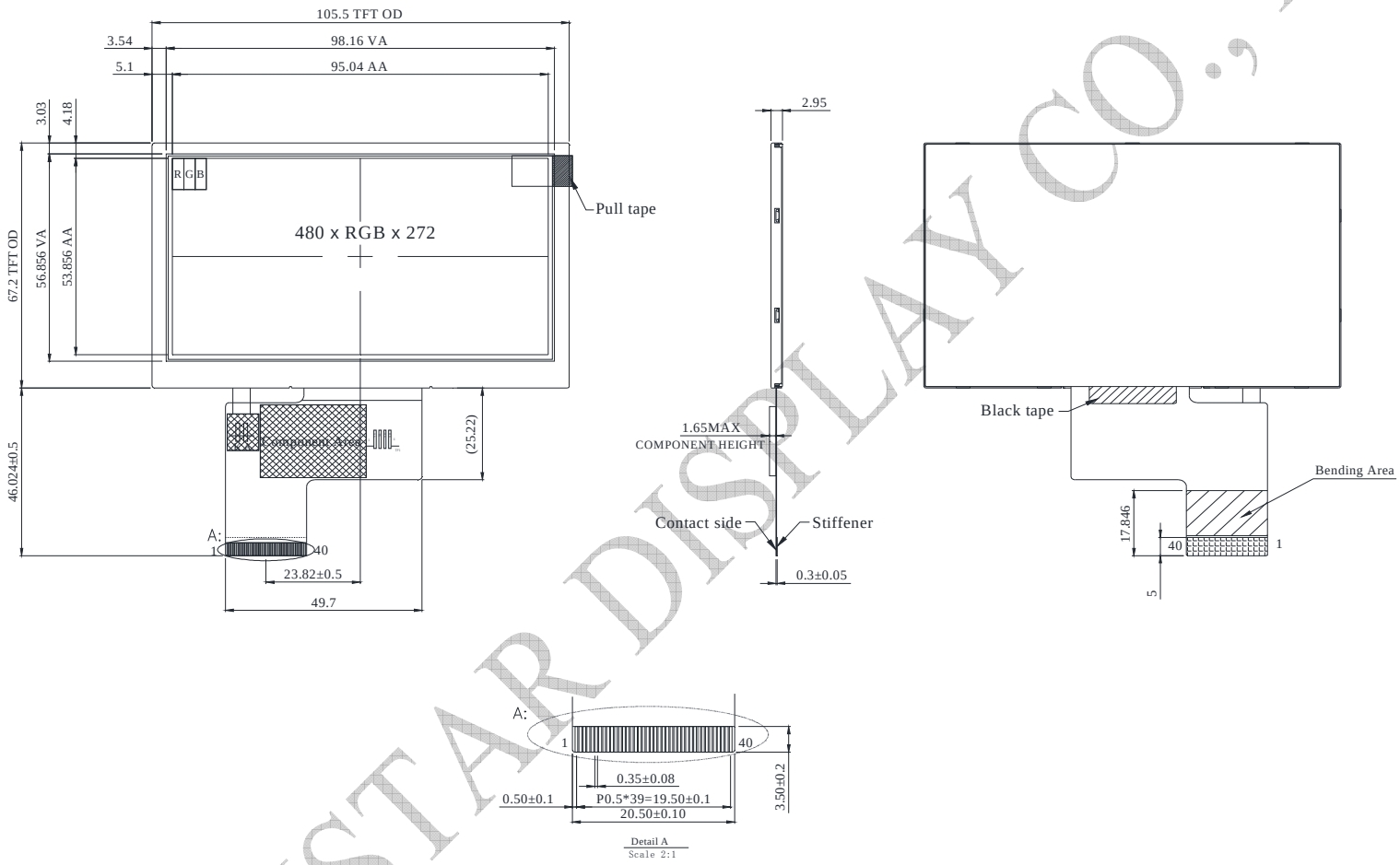
Pin	Symbol	Function
1	LED-	Power for LED backlight cathode
2	LED+	Power for LED backlight anode
3	GND	Power ground
4	VCC	Power voltage
5	R0	Red data
6	R1	Red data
7	R2	Red data
8	R3	Red data
9	R4	Red data
10	R5	Red data
11	R6	Red data
12	R7	Red data
13	G0	Green data
14	G1	Green data
15	G2	Green data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

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<table>
<tr><td>31</td><td>DISP</td><td>DISP sets the display mode.<table><tr><th>VDLKPOL</th><th>Function Description</th></tr><tr><td>L</td><td>VSYNC polarity: positive</td></tr><tr><td>H</td><td>YSNC polarity: negative</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>DE</td><td>Data input enable.</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



PIN NO.	SYMBOL
1	LED-
2	LED+
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	DE
35	NC
36	GND
37	NC
38	NC
39	NC
40	NC

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

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