

TFT DISPLAY SPECIFICATION



WINSTAR Display Co.,Ltd.
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SPECIFICATION

MODULE NO.: WF43XTWAGDNN0#

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	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

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

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+	10.8	12.0	13.6	V
LED Life Time	-	-	50,000	-	Hr

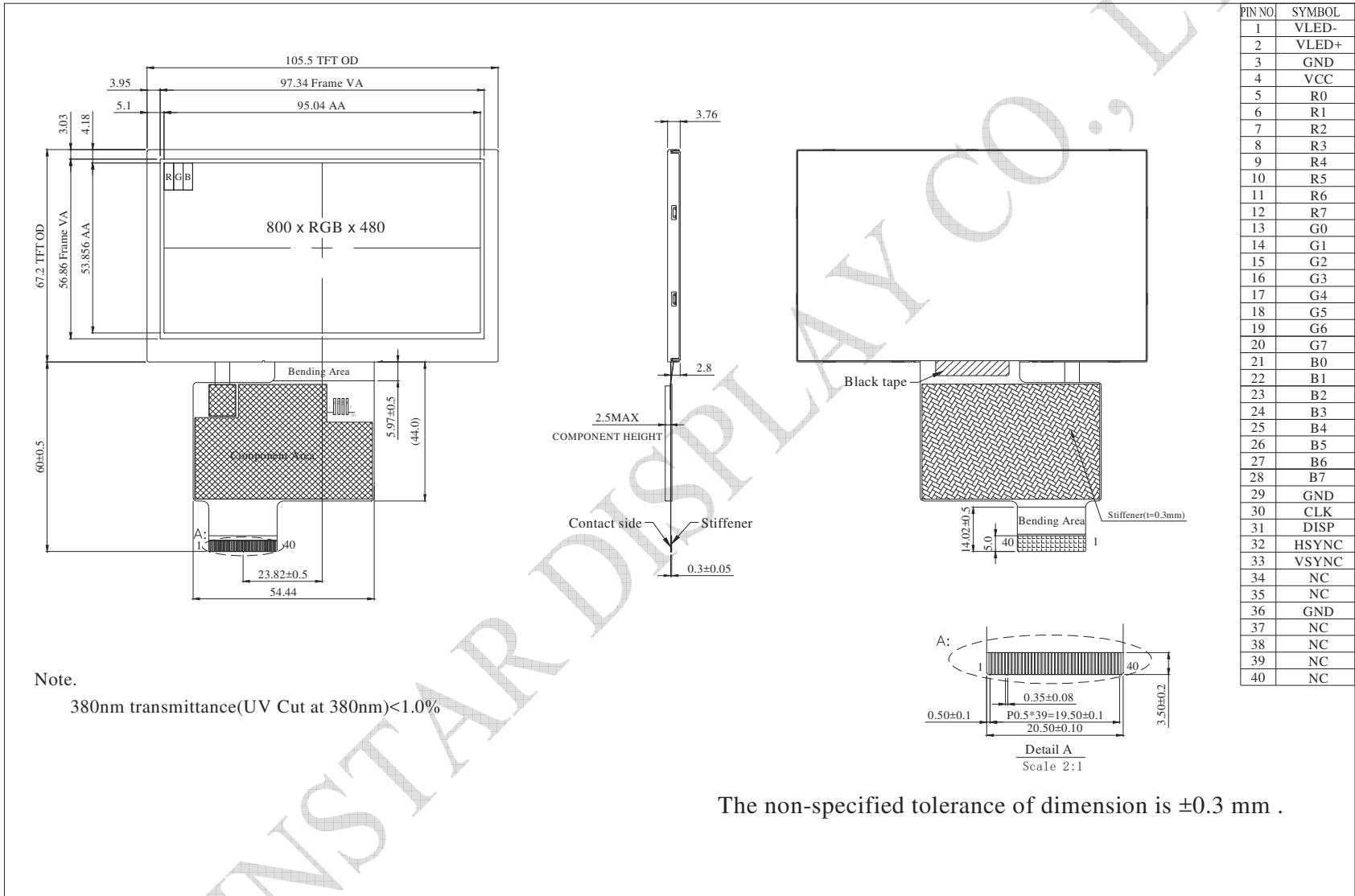
Interface

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						
31	DISP	DISP sets the display mode. <table border="1"> <thead> <tr><th>DISP</th><th>Function Description</th></tr> </thead> <tbody> <tr><td>L</td><td>Standby mode</td></tr> <tr><td>H</td><td>Normal display mode</td></tr> </tbody> </table>	DISP	Function Description	L	Standby mode	H	Normal display mode
DISP	Function Description							
L	Standby mode							
H	Normal display mode							
32	HSYNC	Horizontal Sync Input. Negative polarity						
33	VSYNC	Vertical Sync Input. Negative polarity.						
34	NC	No connection						
35	NC	No connection						
36	GND	Power ground						
37	NC	No connection						
38	NC	No connection						
39	NC	No connection						
40	NC	No connection						

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 .