

# TFT DISPLAY SPECIFICATION



RAYSTAR

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## RFF430X-AWW-DNN SPECIFICATION

### General Specification

- 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
- With /Without TP: Without TP
- Surface: Glare

\*Color tone slight changed by temperature and driving voltage.

# Interface

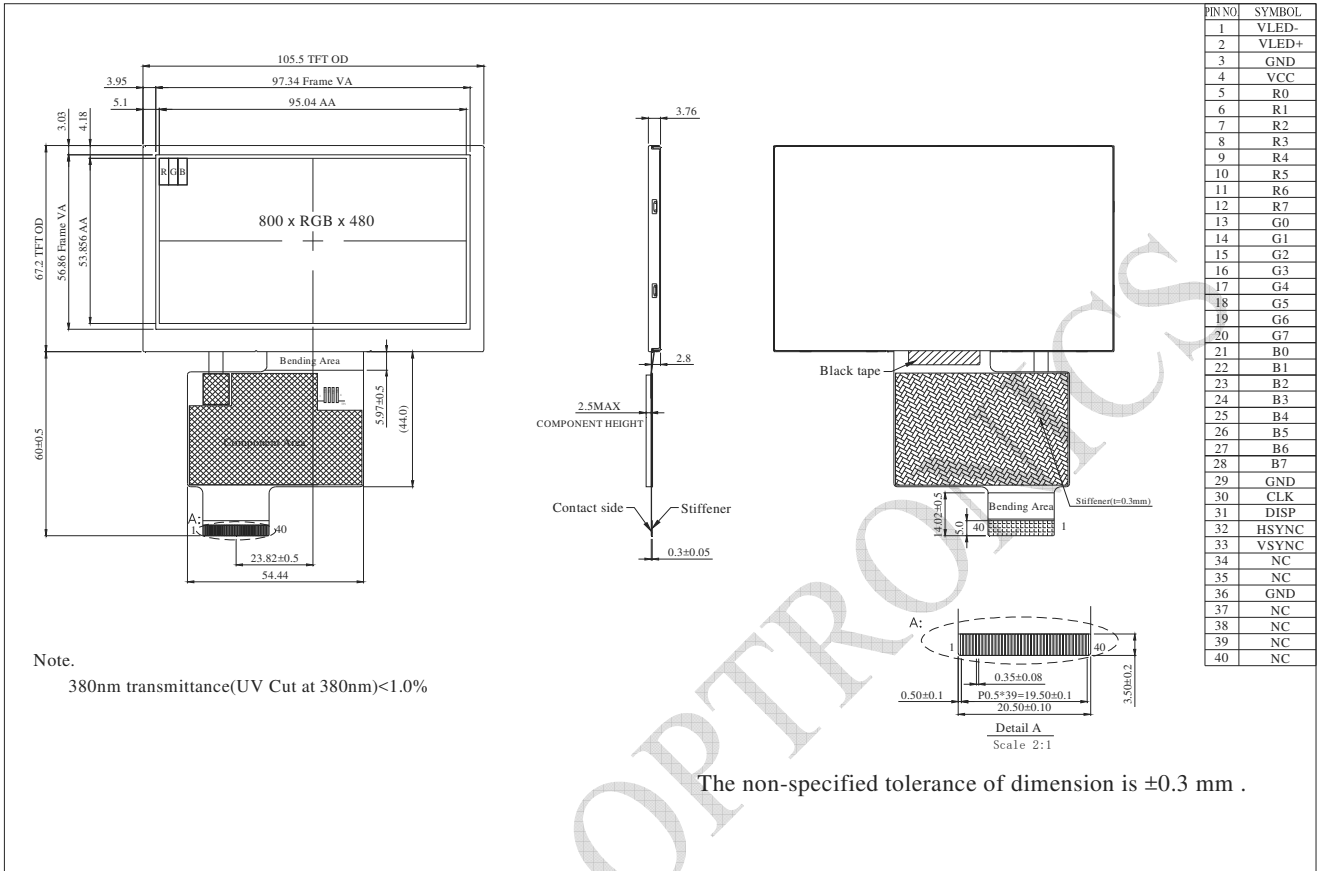
## LCM PIN Definition

Pin	Symbol	Function	Remark
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.		
		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		

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# Contour Drawing



## 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