

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFE430W-AWW-DNN

SPECIFICATION

General Specifications

- 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.

Interface

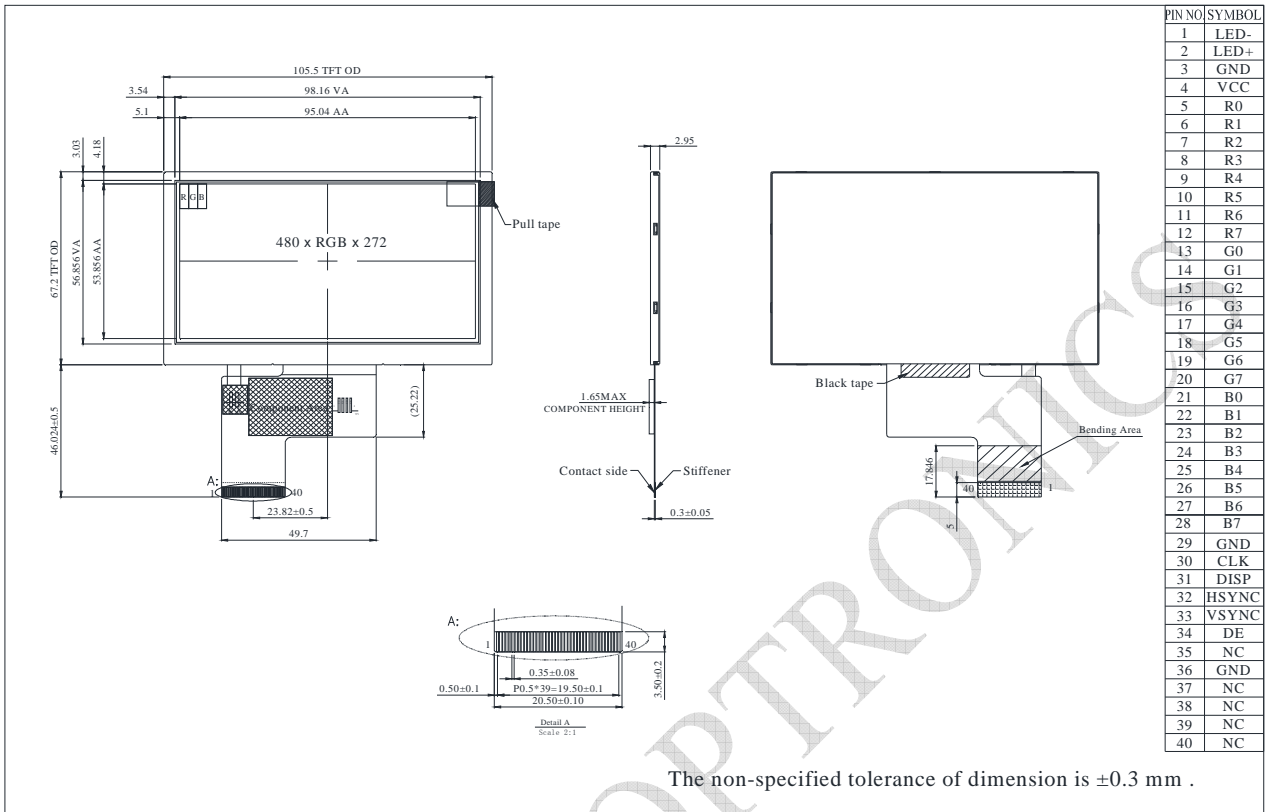
LCM PIN Definition

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 (DCLK)

31	DISP	DISP sets the display mode.	
		DISP	Function Description
		L	Standby mode
		H	Normal display mode
32	HSYNC	Horizontal sync signal, default is negative polarity.	
33	VSYNC	Vertical sync signal, default is negative polarity.	
34	DE	Data input enable.	
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



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Absolute Maximum Ratings

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

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

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	20	-	mA
Power Consumption	-	540	640	680	mW
LED voltage	VLED+	27	32	34	V
LED Life Time	-	-	50,000	-	Hr