

TFT DISPLAY SPECIFICATION



RAYSTAR

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RFG570A5-AYH-DNN

General Specifications

- Size: 5.7 inch
- Dot Matrix: 640 x RGBx480(TFT) dots
- Module dimension: 124.7 x 100.0 x 5.91 mm
- Active area: 115.2 x 86.4 mm
- Pixel pitch: 0.18 x 0.18 mm
- LCD type: TFT, Normally black, Transmissive
- View Angle: 80/80/80/80 (IPS)
- Driver IC: JD9168S
- Interface: RGB18bits SYNC+DE mode
- Aspect Ratio: 4:3
- Backlight Type: LED ,Normally White
- Touch Panel: Without Touch Panel
- Surface: Anti-Glare

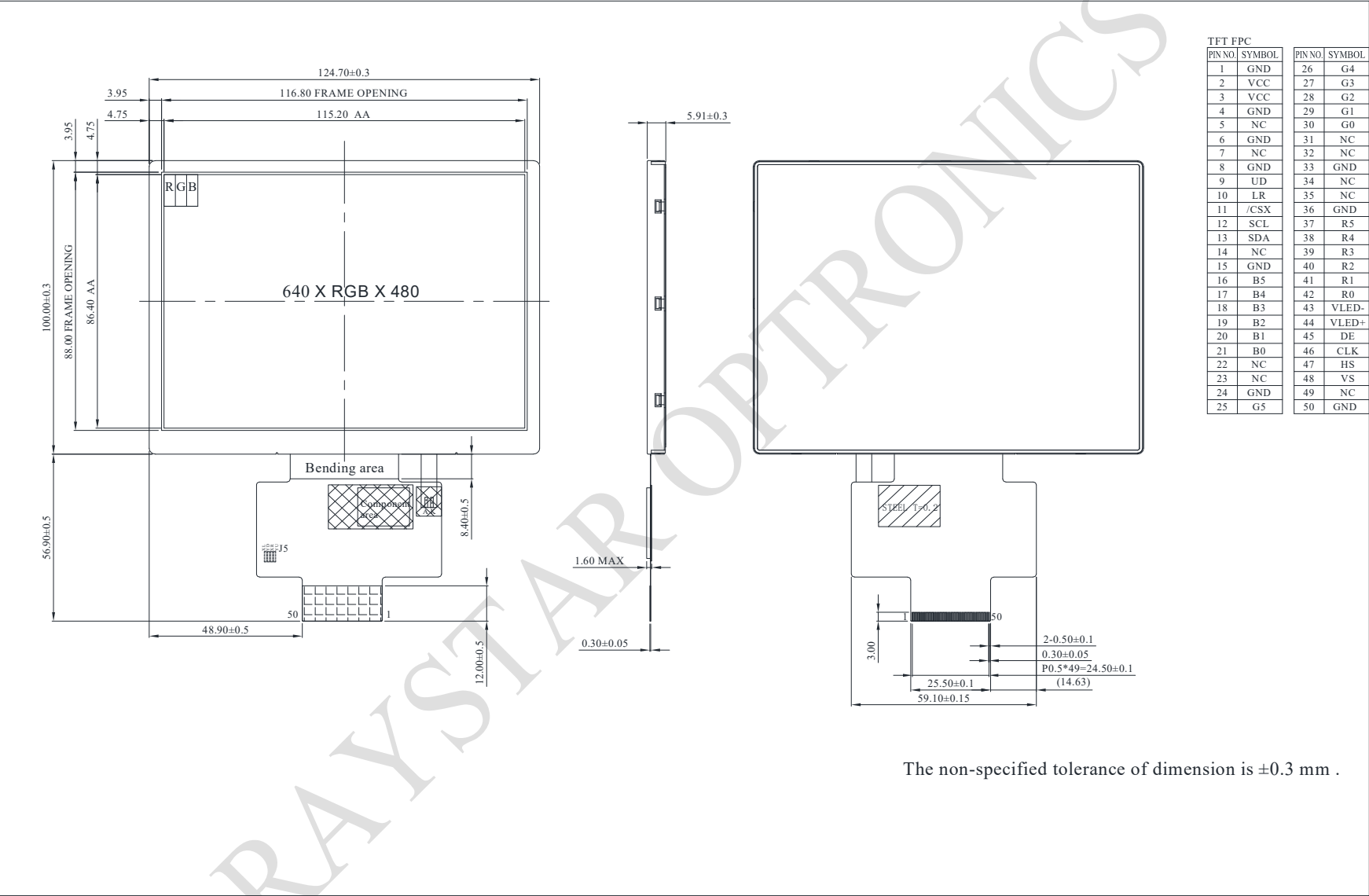
Interface

LCM PIN Definition

Pin	Symbol	I/O	Function
1	GND	P	Ground.
2	VCC	P	Power supply for TFT
3	VCC	P	Power supply for TFT
4	GND	P	Ground.
5	NC	-	No connection
6	GND	P	Ground.
7	NC	-	No connection
8	GND	P	Ground.
9	UD	I	Up/down selection
10	LR	I	Left /right selection
11	/CSX	I	Chip select pin. 0: Chip can be accessed; 1: Chip cannot be accessed. If this pin is not used, please connect it to VCC.
12	SCL	I	Serial clock input in SPI interface .If not use, let it open or VCC or GND.
13	SDA	I	Serial data input / output pin in SPI interface operation. If not use, let it open.
14	NC	-	No connection
15	GND	P	Ground.
16	B5	I	Blue Data bus
17	B4	I	Blue Data bus
18	B3	I	Blue Data bus
19	B2	I	Blue Data bus
20	B1	I	Blue Data bus
21	B0	I	Blue Data bus
22	NC	-	No connection
23	NC	-	No connection
24	GND	P	Ground.
25	G5	I	Green Data bit
26	G4	I	Green Data bit
27	G3	I	Green Data bit
28	G2	I	Green Data bit
29	G1	I	Green Data bit

30	G0	I	Green Data bit
31	NC	-	No connection
32	NC	-	No connection
33	GND	P	Ground.
34	NC	-	No connection
35	NC	-	No connection
36	GND	P	Ground.
37	R5	I	Red Data bit
38	R4	I	Red Data bit
39	R3	I	Red Data bit
40	R2	I	Red Data bit
41	R1	I	Red Data bit
42	R0	I	Red Data bit
43	VLED-	P	Power supply for LED cathode
44	VLED+	P	Power supply for LED anode
45	DE	I	Data enable input in RGB interface.
46	CLK	I	Pixel clock input in RGB interface.
47	HS	I	Horizontal sync input in RGB interface.
48	VS	I	Vertical sync input in RGB interface
49	NC	-	No connection
50	GND	P	Ground.

Contour Drawing



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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Operating conditions:

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage	VCC	Ta=25°C	3.0	3.3	3.6	V
Input voltage	H	VIH	VCC=3.0V	0.7VCC	-	VCC
	L	VIL	VCC=3.0V	0	-	0.3VCC
Power supply Current (Operating)	ICC	VCC=3.0V	—	50	75	mA

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit
LED current	-	-	160	-	mA
Power Consumption	-	2688	2880	3072	mW
LED voltage	VLED+	16.8	18.0	19.2	V
LED Life Time	-	-	50,000	-	Hr