RAYSTAR

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RFC570Y-6IW-DNS

SPECIFICATION

General Specifications

- Size: 5.7 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 141.12(W) x 101.55(H) x 8.0(D)(MAX) mm
- Active area: 115.2 x 86.40 mm
- Dot pitch: 0.12 x 0.36 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Backlight Type: LED,Normally White
- With /Without TP: With RTP
- Surface: Anti-Glare

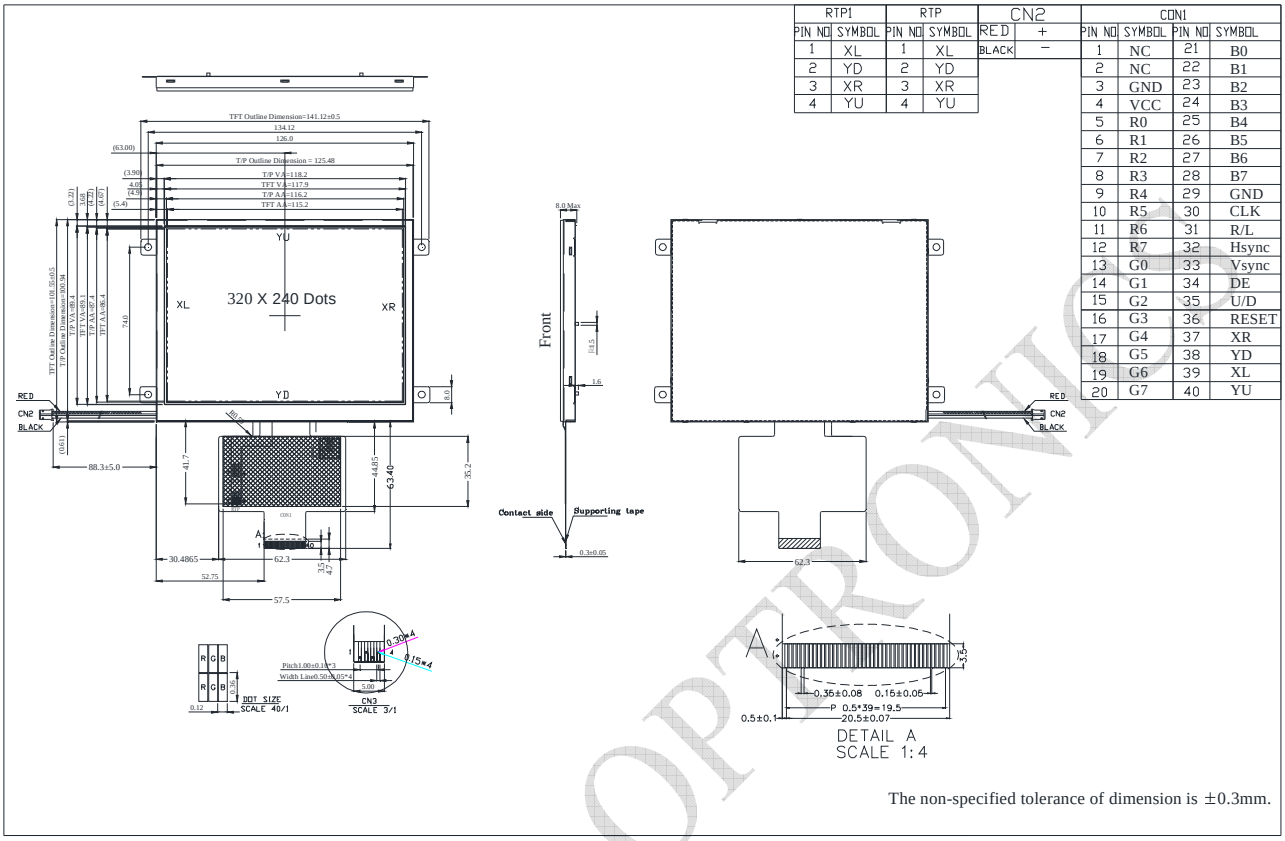
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

Pin	Symbol	Function
1	NC	No connection
2	NC	No connection
3	GND	System ground pin of the IC. Connect to system ground.
4	VCC	Power Supply
5	R0	Red Data bit(LSB)
6	R1	Red Data bit
7	R2	Red Data bit
8	R3	Red Data bit
9	R4	Red Data bit
10	R5	Red Data bit
11	R6	Red Data bit
12	R7	Red Data bit (MSB)
13	G0	Green Data bit(LSB)
14	G1	Green Data bit
15	G2	Green Data bit
16	G3	Green Data bit
17	G4	Green Data bit
18	G5	Green Data bit
19	G6	Green Data bit
20	G7	Green Data bit (MSB)
21	B0	Blue Data bit(LSB)
22	B1	Blue Data bit
23	B2	Blue Data bit
24	B3	Blue Data bit
25	B4	Blue Data bit
26	B5	Blue Data bit
27	B6	Blue Data bit
28	B7	Blue Data bit (MSB)
29	GND	System ground pin of the IC. Connect to system ground.
30	CLK	Dot data clock
31	L/R	Shift direction of device internal shift register control.
32	Hsync	Horizontal sync signal
33	Vsync	Vertical sync signal
34	DE	Data Enable signal
35	U/D	Up/down selection
36	RESET	Hardware reset
37	XR	Right electrode
38	YD	Bottom electrode
39	XL	Left electrode
40	YU	Top electrode

Contour Drawing



RTP1		RTP		CN2	
PIN NO	SYMBOL	PIN NO	SYMBOL	RED	+
1	XL	1	XL	BLACK	−
2	YD	2	YD		
3	XR	3	XR		
4	YU	4	YU		

CON1			
PIN NO	SYMBOL	PIN NO	SYMBOL
1	NC	21	B0
2	NC	22	B1
3	GND	23	B2
4	VCC	24	B3
5	R0	25	B4
6	R1	26	B5
7	R2	27	B6
8	R3	28	B7
9	R4	29	GND
10	R5	30	CLK
11	R6	31	R/L
12	R7	32	Hsync
13	G0	33	Vsync
14	G1	34	DE
15	G2	35	U/D
16	G3	36	RESET
17	G4	37	XR
18	G5	38	YD
19	G6	39	XL
20	G7	40	YU

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

Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VCC	—	3.0	3.3	3.6	V
Supply Current	I_{CC}	VCC=3.3V	—	140	210	mA

LED driving conditions

Parameter	Symbol	Min	Typ	Max	Unit
LED current		-	140	-	mA
Power Consumption		1260		1470	mW
LED voltage	VBL+	9.0		10.5	V
LED Life Time			50,000		Hr