



RAYSTAR

曜凌光電股份有限公司

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RFC570Y-6IW-DNN

SPECIFICATION

General Specifications

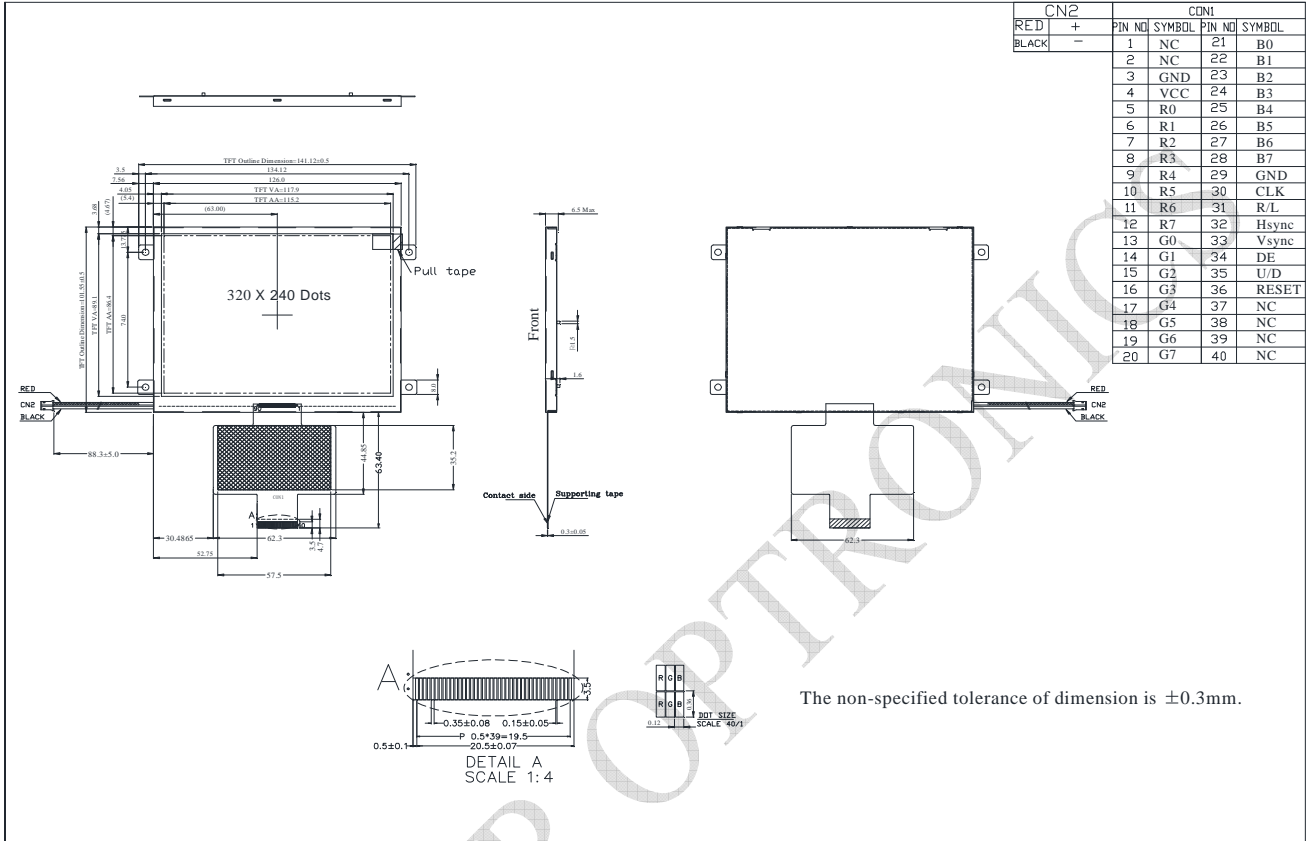
- Size: 5.7 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 141.12(W) x 101.55(H) x 6.5(D)(MAX) mm
- Active area: 115.2 x 86.40 mm
- Dot pitch: 0.12 x 0.36 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12 o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Backlight Type: LED, Normally White
- With /Without TP: Without TP
- Surface: Glare

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 | NC | No connection |
| 38 | NC | No connection |
| 39 | NC | No connection |
| 40 | NC | No connection |

Contour Drawing



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

| 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 |