



RAYSTAR

曜凌光電股份有限公司

Web: www.raystar-optronics.com E-mail: sales@raystar-optronics.com

RFC570B-SCW-LNN

SPECIFICATION

General Specifications

- Size: 5.7 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 160.0(W) x 109.0(H) x 11.5(D) mm
- Active area: 115.20 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

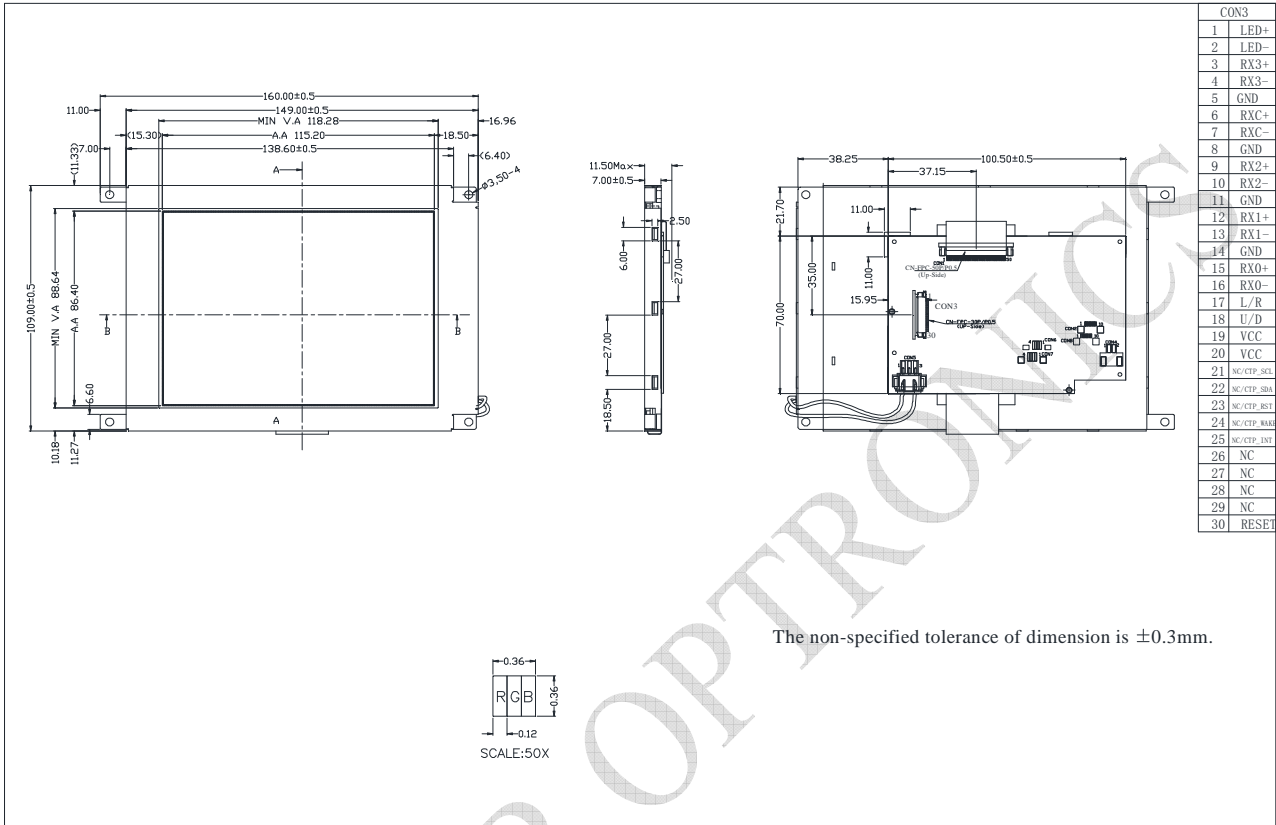
*Color tone slight changed by temperature and driving voltage.

Interface

LCM PIN Definition

| Pin | Symbol | Function |
|-----|--------|--|
| 1 | LED+ | Power supply for Backlight + |
| 2 | LED- | Power supply for Backlight - |
| 3 | RX3+ | - LVDS differential data input |
| 4 | RX3- | + LVDS differential data input |
| 5 | GND | Ground |
| 6 | RXC+ | - LVDS differential clock input |
| 7 | RXC- | + LVDS differential clock input |
| 8 | GND | Ground |
| 9 | RX2+ | - LVDS differential data input |
| 10 | RX2- | + LVDS differential data input |
| 11 | GND | Ground |
| 12 | RX1+ | - LVDS differential data input |
| 13 | RX1- | + LVDS differential data input |
| 14 | GND | Ground |
| 15 | RX0+ | - LVDS differential data input |
| 16 | RX0- | + LVDS differential data input |
| 17 | L/R | Shift direction of device internal shift register control. |
| 18 | U/D | Up/down selection |
| 19 | VCC | Digital power: 3V~3.6V |
| 20 | VCC | Digital power: 3V~3.6V |
| 21 | NC | No connection |
| 22 | NC | No connection |
| 23 | NC | No connection |
| 24 | NC | No connection |
| 25 | NC | No connection |
| 26 | NC | No connection |
| 27 | NC | No connection |
| 28 | NC | No connection |
| 29 | NC | No connection |
| 30 | RESET | Hardware reset |

Contour Drawing



Absolute Maximum Ratings

| Item | Symbol | Min | Typ | Max | Unit |
|-----------------------|--------|-----|-----|-----|------|
| Operating Temperature | TOP | 0 | — | +70 | °C |
| Storage Temperature | TST | -30 | — | +80 | °C |

Electrical Characteristics

Operating conditions

| Item | Symbol | Condition | Min | Typ | Max | Unit |
|------------------------|--------|-----------|---------|-----|---------|------|
| Supply Voltage For LCM | VCC | — | 3.0 | 3.3 | 3.6 | V |
| Supply Current For LCM | ICC | — | — | 210 | 315 | mA |
| Input High Volt. | VIH | — | 0.7 VCC | — | VCC | V |
| Input Low Volt. | VIL | — | 0 | — | 0.3 VCC | V |

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 |