



RAYSTAR

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RFC350L-AIH-DNS

SPECIFICATION

General Specifications

- Size: 3.5 inch
- Dot Matrix: 320 x RGB x 240(TFT) dots
- Module dimension: 76.84 x 63.84 x 4.37 mm
- Active area: 70.08 x 52.56 mm
- Dot pitch: 0.073 x 0.219 mm
- LCD type: TFT, Normally White, Transmissive
- View Direction: 12o'clock
- Gray Scale Inversion Direction: 6 o'clock
- Aspect Ratio: 4:3
- Backlight Type: LED ,Normally White
- Touch Screen: Resistive Touch Screen, RTP
- Surface: Anti-Glare

*Color tone slight changed by temperature and driving voltage.

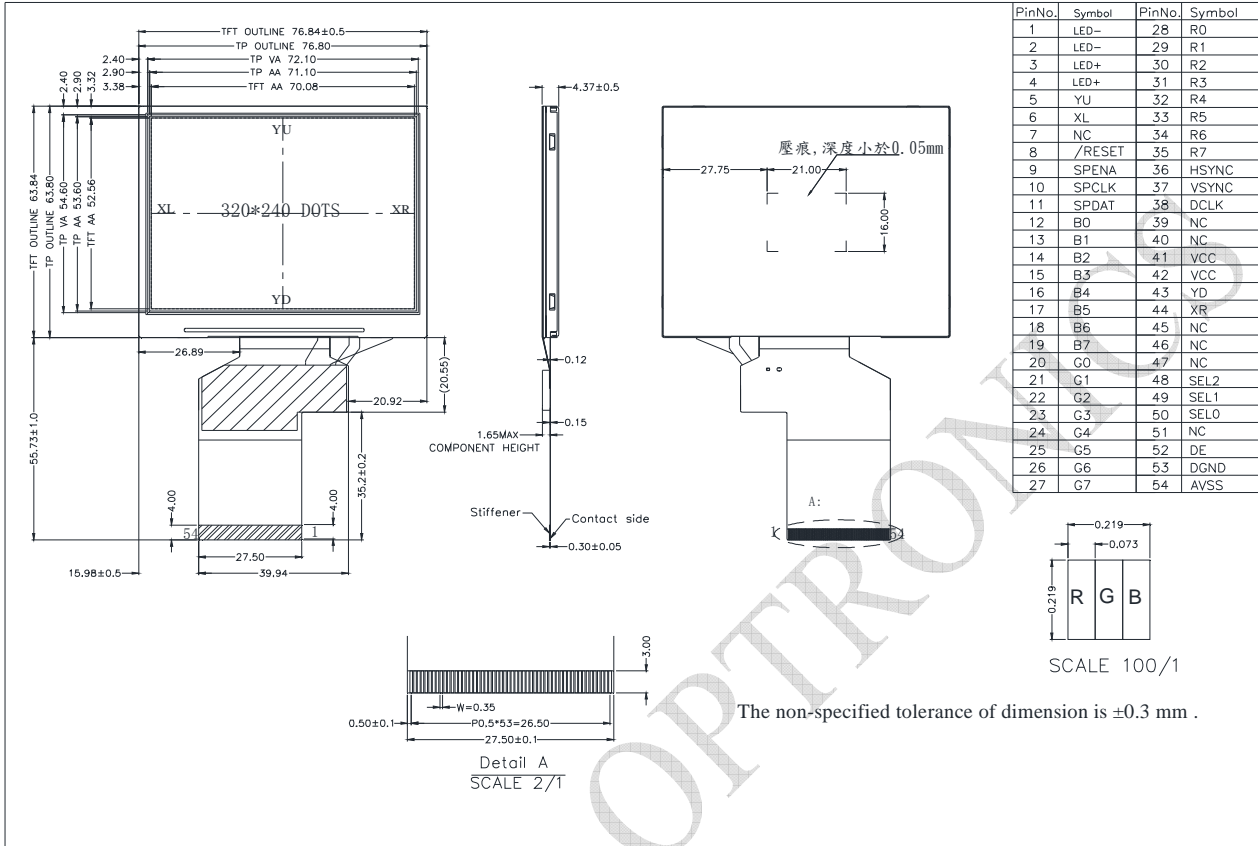
Interface

LCM PIN Definition

| Pin | Symbol | Function |
|-----|--------|-------------------------------------|
| 1 | LED- | Power for LED backlight cathode |
| 2 | LED- | Power for LED backlight cathode |
| 3 | LED+ | Power for LED backlight anode |
| 4 | LED+ | Power for LED backlight anode |
| 5 | YU | Top electrode |
| 6 | XL | Left electrode |
| 7 | NC | No connect |
| 8 | /RESET | Hardware reset |
| 9 | SPENA | Chip select pin of serial interface |
| 10 | SPCLK | Clock pin of serial interface |
| 11 | SPDAT | Data input pin in serial mode |
| 12 | B0 | Data bus |
| 13 | B1 | Data bus |
| 14 | B2 | Data bus |
| 15 | B3 | Data bus |
| 16 | B4 | Data bus |
| 17 | B5 | Data bus |
| 18 | B6 | Data bus |
| 19 | B7 | Data bus |
| 20 | G0 | Data bus |
| 21 | G1 | Data bus |
| 22 | G2 | Data bus |
| 23 | G3 | Data bus |
| 24 | G4 | Data bus |
| 25 | G5 | Data bus |
| 26 | G6 | Data bus |
| 27 | G7 | Data bus |
| 28 | R0 | Data bus |
| 29 | R1 | Data bus |

| | | |
|-----------|--------------|--|
| 30 | R2 | Data bus |
| 31 | R3 | Data bus |
| 32 | R4 | Data bus |
| 33 | R5 | Data bus |
| 34 | R6 | Data bus |
| 35 | R7 | Data bus |
| 36 | HSYNC | Line synchronization signal |
| 37 | VSYNC | Frame synchronization signal |
| 38 | DCLK | Dot-clock signal and oscillator source |
| 39 | NC | No connect |
| 40 | NC | No connect |
| 41 | VCC | Power Supply |
| 42 | VCC | Power Supply |
| 43 | YD | Bottom electrode |
| 44 | XR | Right electrode |
| 45 | NC | No connect |
| 46 | NC | No connect |
| 47 | NC | No connect |
| 48 | SEL2 | Input pin to select input interface mode |
| 49 | SEL1 | Input pin to select input interface mode |
| 50 | SEL0 | Input pin to select input interface mode |
| 51 | NC | No connect |
| 52 | DE | Display enable pin from controller. Internal pull high Connect to VCCIO or floating if not used |
| 53 | DGND | System ground pin of the IC. Connect to system ground. |
| 54 | AVSS | Grounding for analog circuit Connect to system ground |

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 LCM | VCC | — | 3.0 | 3.3 | 3.6 | V |
| Supply Current For LCM | ICC | — | — | 8.6 | 15 | mA |