

# OLED DISPLAY SPECIFICATION



RAYSTAR

RAYSTAR Optronics, Inc.  
曜凌光電股份有限公司



曜凌光電股份有限公司  
Raystar Optronics, Inc.

T: +886-4-2565-0761 | F: +886-4-2565-0760

[salescontact@raystar-optronics.com](mailto:salescontact@raystar-optronics.com) | [www.raystar-optronics.com](http://www.raystar-optronics.com)

## REA012864L(SPI)

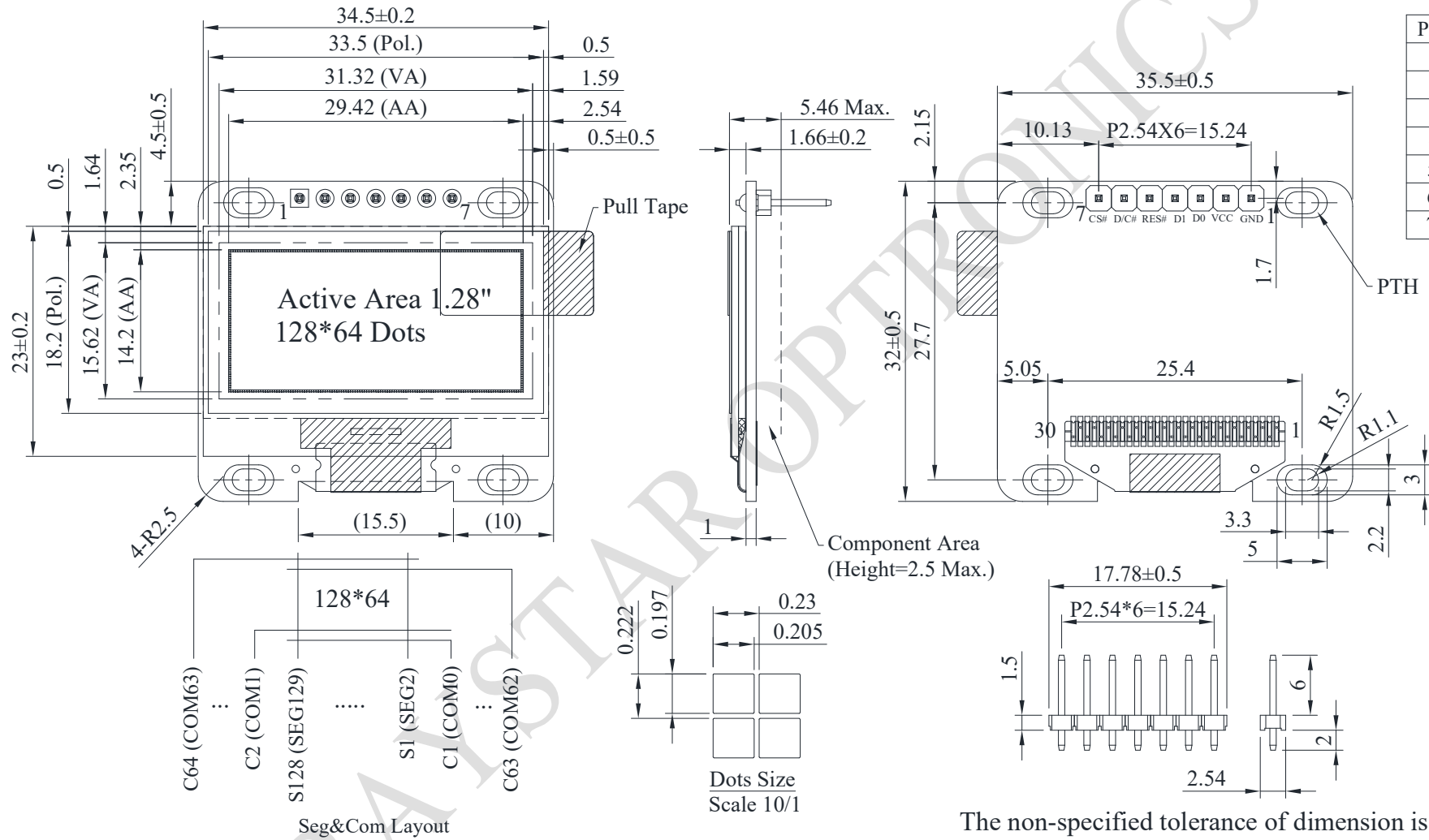
### General Specification

- Module dimension: 35.50 × 32.00 × 5.46 Max. mm
- Active area: 29.42 × 14.20 mm
- Dot Matrix: 128 × 64
- Dot size: 0.205 × 0.197 mm
- Dot pitch: 0.230 × 0.222 mm
- Display Mode : Passive Matrix
- Duty: 1/64 Duty
- Display Color: Monochrome
- IC: SH1106
- Interface: SPI
- Size: 1.28 inch

## Interface Pin Function

| No. | Symbol | Function                                                                                                                                                                                  |
|-----|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | GND    | Ground                                                                                                                                                                                    |
| 2   | VCC    | Power supply input                                                                                                                                                                        |
| 3   | D0     | The serial clock input                                                                                                                                                                    |
| 4   | D1     | The serial data input                                                                                                                                                                     |
| 5   | RES#   | This is a reset signal input pad. When $\overline{\text{RES}}$ is set to "L", the settings are initialized. The reset operation is performed by the $\overline{\text{RES}}$ signal level. |
| 6   | D/C#   | This is the Data/Command control                                                                                                                                                          |
| 7   | CS#    | This pad is the chip select input.                                                                                                                                                        |

# Contour Drawing



The non-specified tolerance of dimension is  $\pm 0.3$  mm .

## Absolute Maximum Ratings

| Parameter                | Symbol | Min  | Max | Unit |
|--------------------------|--------|------|-----|------|
| Supply Voltage for Logic | VCC    | 1.65 | 5.5 | V    |
| Operating Temperature    | TOP    | -40  | +80 | °C   |
| Storage Temperature      | TSTG   | -40  | +85 | °C   |

## Electrical Characteristics

### DC Electrical Characteristics

| Item                     | Symbol | Condition | Min     | Typ | Max     | Unit |
|--------------------------|--------|-----------|---------|-----|---------|------|
| Supply Voltage for Logic | VCC    | —         | 3.0     | 3.3 | 5.2     | V    |
| Input High Volt.         | VIH    | —         | 0.8×VCC | —   | VCC     | V    |
| Input Low Volt.          | VIL    | —         | 0       | —   | 0.2×VCC | V    |
| Output High Volt.        | VOH    | —         | 0.8×VCC | —   | VCC     | V    |
| Output Low Volt.         | VOL    | —         | 0       | —   | 0.2×VCC | V    |
| Display 50% Pixel on     | ICC    | VCC =3.3V | -       | 25  | 37.5    | mA   |