

# OLED DISPLAY SPECIFICATION



RAYSTAR

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## REA012832F

### General Specification

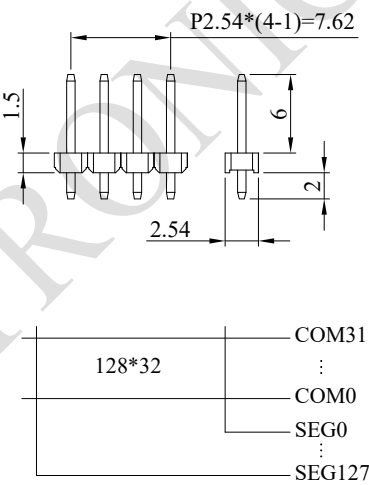
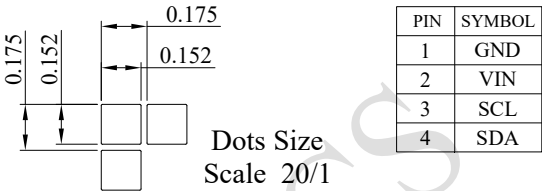
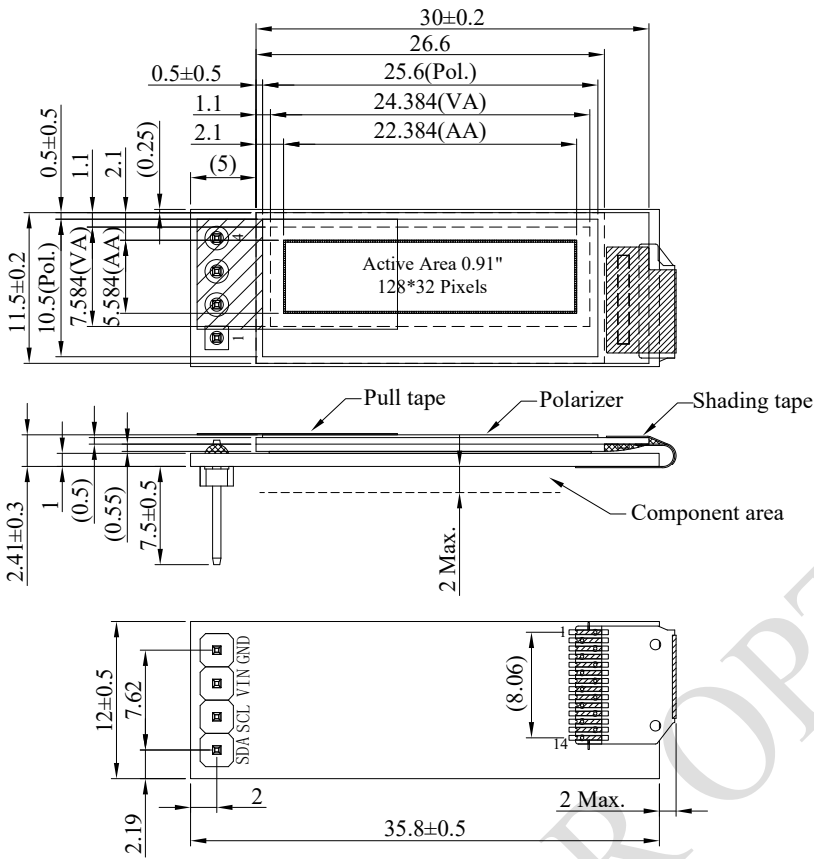
The features is described as follow:

- Module Dimension: 35.8 × 2.0 × 2.41 mm
- Active Area: 22.384 × 5.584 mm
- Dot Matrix: 128 × 32
- Dot Size: 0.152 × 0.152 mm
- Dot Pitch: 0.175 × 0.175 mm
- Display Mode : Passive Matrix
- Duty: 1/32 Duty
- Display Color: Monochrome
- IC: SSD1306
- Interface:I2C
- Size: 0.91-inch

## Interface Pin Function

| Pin No. | Symbol | Function                                                                                                                                  |
|---------|--------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | GND    | Ground                                                                                                                                    |
| 2       | VIN    | Power supply input.                                                                                                                       |
| 3       | SCL    | When the I2C interface is selected, then D0 serves as the serial clock input pad (SCL) and D1 serves as the serial data input pad (SDAI). |
| 4       | SDA    |                                                                                                                                           |

# Contour Drawing



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

## Absolute Maximum Ratings

| Parameter                | Symbol | Min | Max | Unit |
|--------------------------|--------|-----|-----|------|
| Supply Voltage for Logic | VIN    | 0   | 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             | VIN    | —         | 2.8     | 3.0  | 5.2     | V    |
| Input High Volt                      | VIH    | —         | 0.8×VIN | —    | VIN     | V    |
| Input Low Volt                       | VIL    | —         | 0       | —    | 0.2×VIN | V    |
| Output High Volt                     | VOH    | —         | 0.9×VIN | —    | VIN     | V    |
| Output Low Volt                      | VOL    | —         | 0       | —    | 0.1×VIN | V    |
| 50% Check Board<br>Operating Current | IIN    | VIN=3V    | —       | 13.0 | 26.0    | mA   |