

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 | www.raystar-optronics.com

REX004864A

General Specification

The Features is described as follow:

- Dot Matrix: 48 x 64 Dots
- Module Dimension: 13.90 × 22.0 × 1.26mm
- Active Area: 10.54 × 14.70 mm
- Pixel Size: 0.198 × 0.208mm
- Pixel Pitch: 0.220 × 0.230 mm
- Display Mode: Passive Matrix
- Display Color: Monochrome
- Drive Duty: 1/64 Duty
- IC: SSD1306
- Interface: I2C
- Size: 0.71-inch

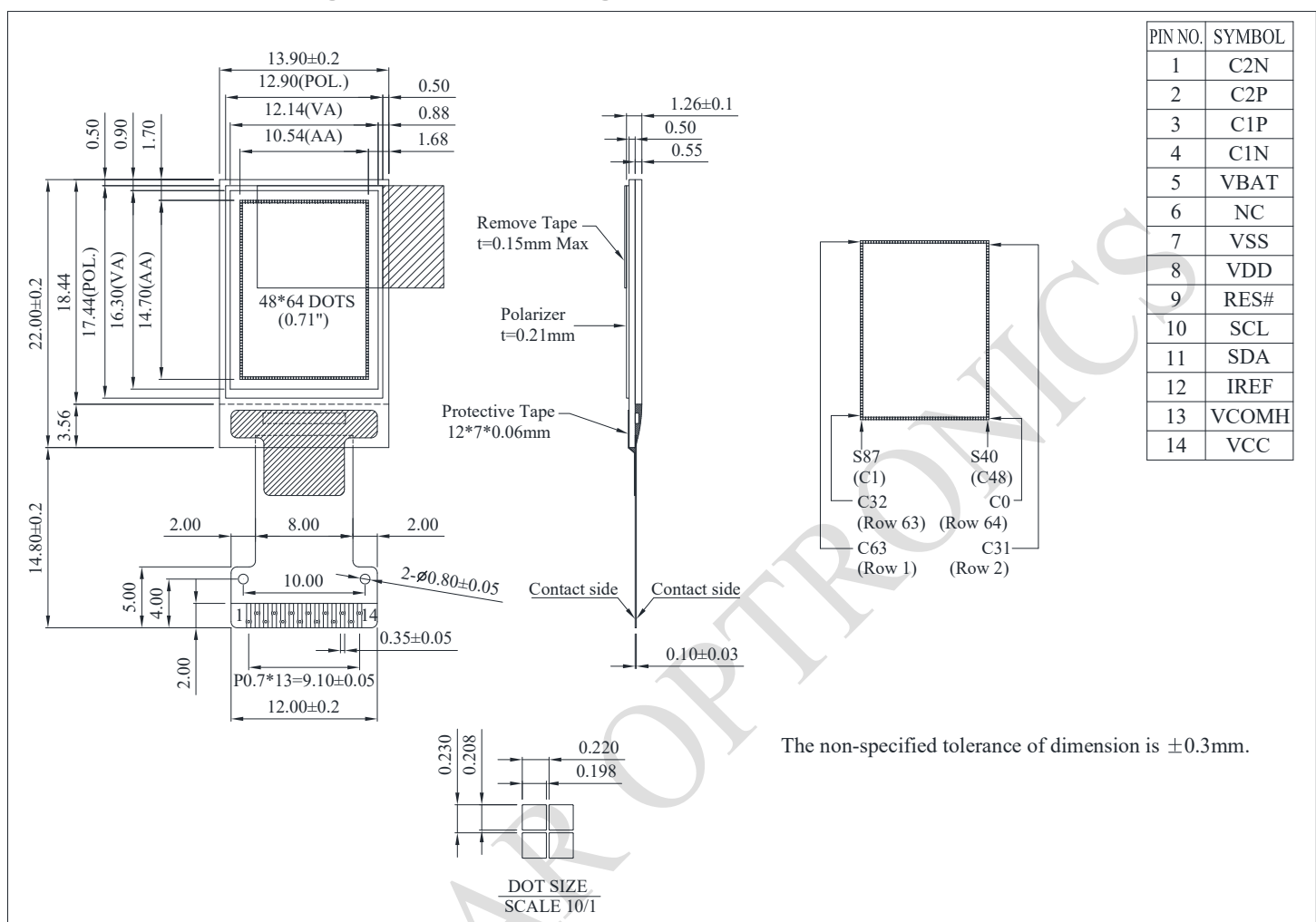
Interface Pin Function

No.	Symbol	Function
1	C2N	<i>Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor</i> The charge-pump capacitors are required between the terminals. They must be floated when the converter is not used.
2	C2P	
3	C1P	
4	C1N	
5	VBAT	<i>Power Supply for DC/DC Converter Circuit</i> This is the power supply pin for the internal buffer of the DC/DC voltage converter. It must be connected to external source when the converter is used. It should be connected to VDD when the converter is not used.
6	NC	No connection.
7	VSS	<i>Ground of Logic Circuit</i> This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.
8	VDD	<i>Power Supply for Logic</i> This is a voltage supply pin. It must be connected to external source.
9	RES#	<i>Power Reset for Controller and Driver</i> <i>This pin is reset signal input. When the pin is low, initialization of the chip is executed.</i>
10	SCL	<i>Host Data Input/Output Bus</i>
11	SDA	When serial mode is selected, D1 will be the serial data input SDIN and D0 will be the serial clock input SCLK. When I2C mode is selected, D2 & D1 should be tied together and serve as SDAout & SDAin in application and D0 is the serial clock input SCL.
12	IREF	<i>This is segment output current reference pin.</i> <i>When external IREF is used, a resistor should be connected between this pin and Vss to maintain the IREF current at a maximum of 30uA.</i> <i>When internal IREF is used, this pin should be kept NC</i>
13	VCOMH	<i>Voltage Output High Level for COM Signal</i> This pin is the input pin for the voltage output high level for COM signals. A

		capacitor should be connected between this pin and VSS.
14	VCC	<i>Power Supply for OEL Panel</i> This is the most positive voltage supply pin of the chip. A stabilization capacitor should be connected between this pin and VSS when the converter is used. It must be connected to external source when the converter is not used.

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Contour Drawing & Block Diagram



Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	0	4.0	V
Supply Voltage for Display	VCC	0	15.0	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	VDD	—	2.8	3.0	3.3	V
Supply Voltage for Display	VCC	—	7.0	7.5	8.0	V
Input High Volt	VIH	—	0.8×VDD	—	VDD	V
Input Low Volt	VIL	—	0	—	0.2×VDD	V
Output High Volt	VOH	—	0.9×VDD	—	VDD	V
Output Low Volt	VOL	—	0	—	0.1×VDD	V
50% Check Board Operating Current	ICC	VCC=7.5V	—	15.0	25.0	mA