



# SPECIFICATION

# OLED SPECIFICATION

Model No:

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

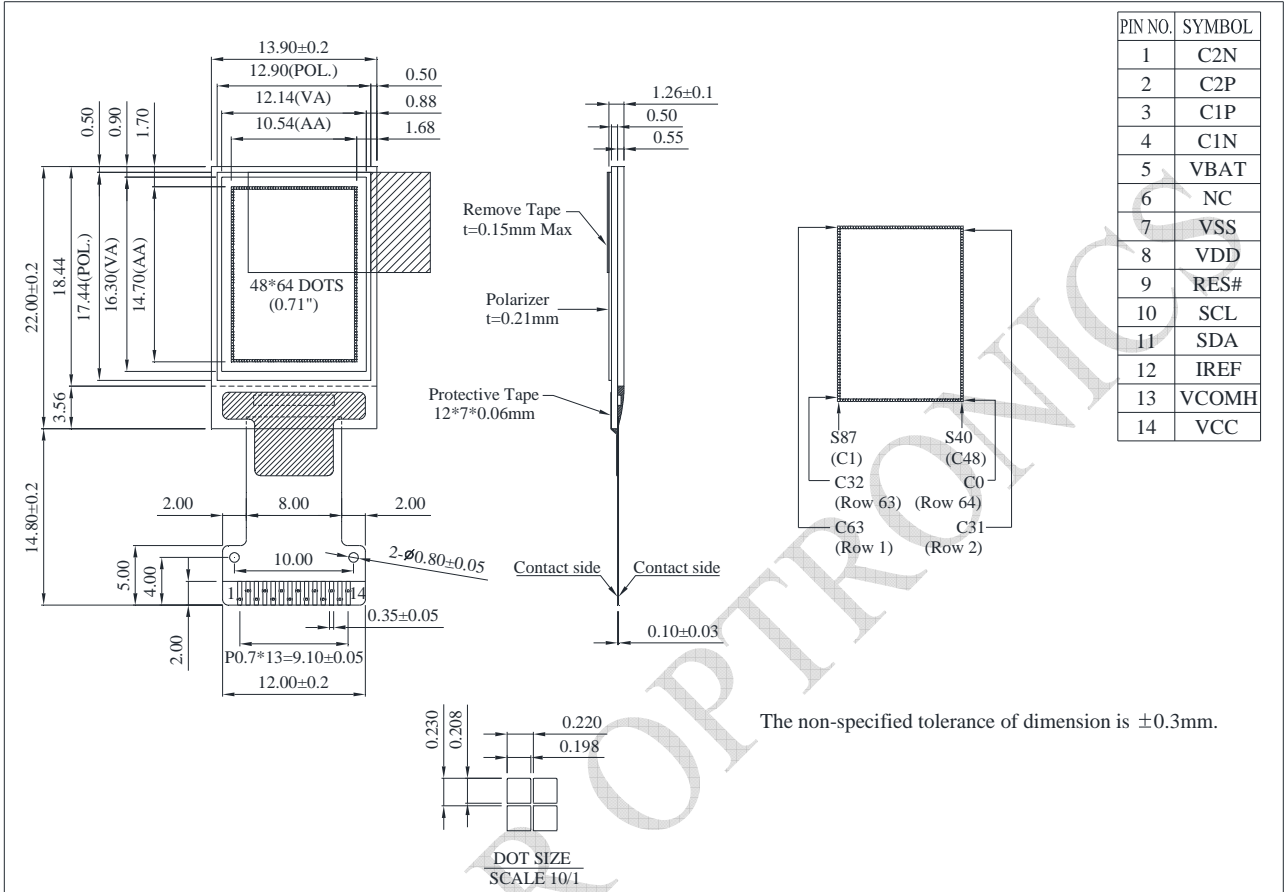
## Interface Pin Function

No.	Symbol	Function
1	C2N	Positive Terminal of the Flying Inverting Capacitor Negative Terminal of the Flying Boost Capacitor 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	Power Supply for DC/DC Converter Circuit 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	Ground of Logic Circuit This is a ground pin. It acts as a reference for the logic pins. It must be connected to external ground.
8	VDD	Power Supply for Logic This is a voltage supply pin. It must be connected to external source.
9	RES#	Power Reset for Controller and Driver This pin is reset signal input. When the pin is low, initialization of the chip is executed.
10	SCL	Host Data Input/Output Bus
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	This is segment output current reference pin. 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. When internal IREF is used, this pin should be kept NC
13	VCOMH	Voltage Output High Level for COM Signal 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	Power Supply for OEL Panel 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.



RAYSTAR

# 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

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	—	0.8xVDD	—	VDD	V
Input Low Volt.	VIL	—	0	—	0.2xVDD	V
Output High Volt.	VOH	—	0.9xVDD	—	VDD	V
Output Low Volt.	VOL	—	0	—	0.1xVDD	V
50% Check Board operating Current	ICC	VCC=7.5V	—	15.0	25.0	mA