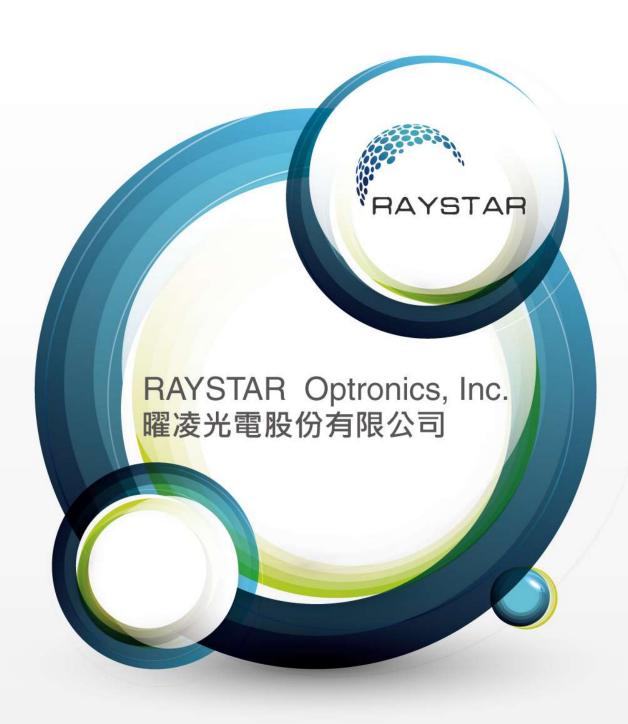
OLED DISPLAY SPECIFICATION





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REX009664D

General Specification

The features is described as follow:

■ Module Dimension: 24.9 × 22.95 × 1.77 mm

Active Area: 19.946 × 13.418mm

■ Dot Matrix: 96*64

■ Pixel Size: 0.184 × 0.186 mm

■ Pixel Pitch: 0.208 × 0.21 mm

■ Duty: 1/64 Duty

■ Display Mode : Passive Matrix

Display Color: Monochrome

■ IC: SSD1315

Interface: 6800 / 8080 / 4-wire SPI / I2C

Size: 0.95-inch

Interface Pin Function

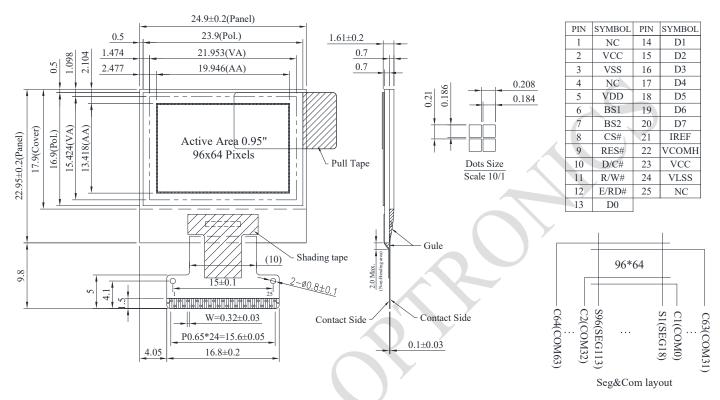
Pin							
No.	Symbol	Function					
1	NC	No connection					
2	VCC	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.					
3	VSS	Ground pin. It must be connected to external ground.					
4	NC	No connection					
5	VDD	Power supply pin for core logic operation.					
6	BS1	MCU bus interface selection pins. Select appropriate logic setting as described in the following table. BS2, BS1 are pin select BS[2:1] Interface 00 4 line SPI					
7	BS2	01 11 10 Note (1) 0 is connec	I2C 8-bit 8080 parallel 8-bit 6800 parallel ted to VSS (2) 1 is col	nnected to VDD			
8	CS#	This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW (active LOW).					
9	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal operation.					

	D/C#	This pin is Data/Command control pin connecting to the MCU.			
10		When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data.			
	D/C#	When the pin is pulled LOW, the data at D[7:0] will be transferred to a			
		command register.			
	R/W#	This is read / write control input pin connecting to the MCU interface.			
		When interfacing to a 6800-series microprocessor, this pin will be used as			
		Read/Write (R/W#) selection input. Read mode will be carried out when this			
		pin is pulled HIGH (i.e. connect to VDD) and write mode when LOW.			
11		When 8080 interface mode is selected, this pin will be the Write (WR#)			
		input. Data write operation is initiated when this pin is pulled LOW and the			
		chip is selected.			
		When serial or I2C interface is selected, this pin must be connected to VSS.			
		This pin is MCU interface input.			
	E/RD#	When 6800 interface mode is selected, this pin will be used as the Enable			
		(E) signal. Read/write operation is initiated when this pin is pulled HIGH and			
12		the chip is selected.			
		When 8080 interface mode is selected, this pin receives the Read (RD#)			
		signal. Read operation is initiated when this pin is pulled LOW and the chip			
13	D0	These are 8-bit bi-directional data bus to be connected to the			
14 15	D1 D2	microprocessor's data bus. When serial interface mode is selected, D0 will			
16	D3	be the serial clock input: SCLK; D1 will be the serial data input: SDIN.			
17	D4				
18	D5	When I2C mode is selected, D2, D1 should be tied together and serve as			
19	D6 D7	SDAout, SDAin in application and D0 is the serial clock input, SCL.			
20	D/	This is segment output current reference pin.			
21	IREF	When external IREF is used, a resistor should be connected between this			
		pin and VSS to maintain the IREF current at 30uA.			
22	VCOMH	COM signal deselected voltage level.			
22		A capacitor should be connected between this pin and VSS.			
20	VCC	Power supply for panel driving voltage. This is also the most positive power			
23		voltage supply pin.			
24	VLSS	This is an analog ground pin. It should be connected to VSS externally.			
L					

25	NC	No connection



Contour Drawing



The non-specified tolerance of dimension is ± 0.3 mm.

Absolute Maximum Ratings

Parameter	Symbol	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD	-0.3	_	4.0	V
Supply Voltage for Display	VCC	0	_	18.0	V
Operating Temperature	TOP	-40	_	+80	°C
Storage Temperature	TSTG	-40	_	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Тур	Max	Unit
Supply Voltage for Logic	VDD		1.65	3.0	3.3	V
Supply Voltage for Display	VCC		7.5	12.0	12.5	V
High Level Input	VIH	_	0.8×VDD	_	VDD	V
Low Level Input	VIL	_	0	_	0.2×VDD	V
High Level Output	VOH	lout = 100uA	0.9×VDD	_	VDD	V
Low Level Output	VOL	lout = 100uA	0		0.1×VDD	V
Display 50% Pixel on	ICC	_	_	6	9	mA