# **OLED DISPLAY SPECIFICATION**





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#### **REX009632C-ZIF**

#### **General Specification**

The features is described as follow:

■ Module Dimension: 19.80 x 12.32 x 1.21 mm

Active Area: 16.298 x 5.418 mm

■ Dot Matrix: 96 x 32

Dot Size: 0.148 x 0.148 mm

■ Dot Pitch: 0.17 x 0.17 mm

Display Mode: Passive Matrix

Duty: 1/32 Duty

■ Display Color: Monochrome

■ Controller IC: SSD1315

■ Interface: 6800,8080,4-wire SPI,I2C

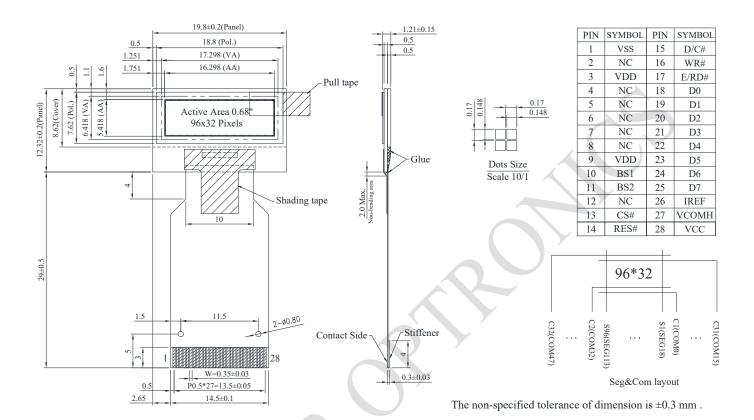
Size: 0.68-inch

## **Interface Pin Function**

Pin No.	Symbol	Function					
1	VSS	Ground pin. It must be connected to external ground.					
2	NC	No connection					
3	VDD	Power supply pin for core logic operation.					
4~8	NC	No connection					
9	VDD	Power supply pin for core logic operation.					
	BS1	MCU bus interface selection pins. Select appropriate logic setting as					
10		described in the following table. BS2, BS1 are pin select					
		BS[2:1]	Interface				
		00	4 line SPI				
	BS2	01	I2C				
11		11	8-bit 8080 parallel				
		10	8-bit 6800 parallel				
		Note					
12	NC	No connection					
	CS#	This pin is the chip select input connecting to the MCU.					
13		The chip is enabled for MCU communication only when CS# is pulled LOW					
		(active LOW).					
	RES#	This pin is rese	t signal input. When the pin is pulled LOW, initialization of the				
14		chip is executed. Keep this pin HIGH (i.e. connect to VDD) during normal					
		operation.					
		This pin is Data	/Command control pin connecting to the MCU.				
	D/C#	When the pin is	pulled HIGH, the data at D[7:0] will be interpreted as data.				
15		When the pin is pulled LOW, the data at D[7:0] will be transferred to a					
		command register.					
In I2C mode, this pin acts as SA0 for slave address selection.							
	W/R#	This is read / write control input pin connecting to the MCU interface.					
16		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				
	1						

			pin is pulled HIGH (i.e. connect to VDD) and write mode when LOW.
			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.
		E/RD#	This pin is MCU interface input.
			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
1	7		the chip is selected.
17	′		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
			is selected.
			When serial or I2C interface is selected, this pin must be connected to VSS.

## **Contour Drawing**



# **Absolute Maximum Ratings**

Parameter	Symbol	Min	Тур.	Max	Unit
Supply Voltage for Logic	VDD	-0.3	-	4	V
Supply Voltage for Display	VCC	0	-	18	V
Operating Temperature	TOP	-40	-	+80	°C
Storage Temperature	TSTG	-40	-	+85	°C

#### **Electrical Characteristics**

#### **DC 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	VCC=12V	_	5.0	7.5	mA