WINSTAR Display

OLED SPECIFICATION

Model No:

WEA9664x#B00-FC

WINSTAR DISPLAY Co., Ltd.

Represented by:

first FC components

FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)

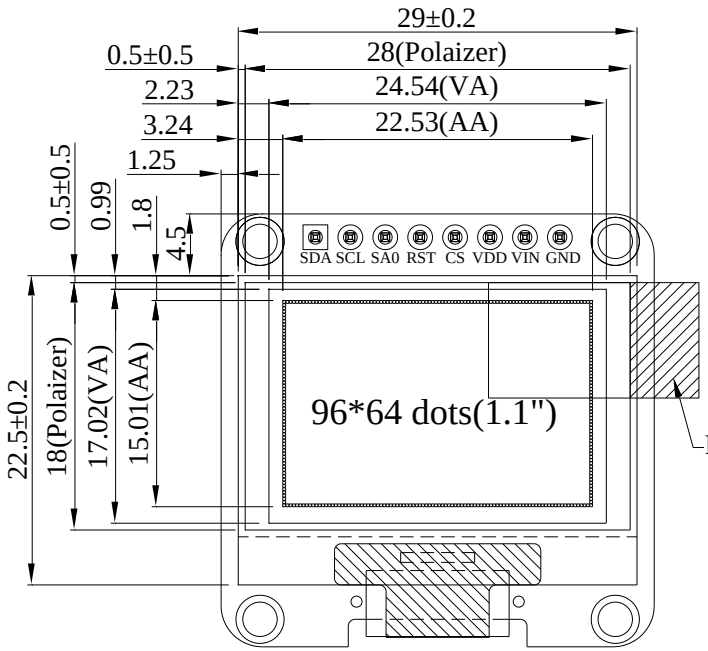
T. +39 0332 1888005 web: www.first-components.com

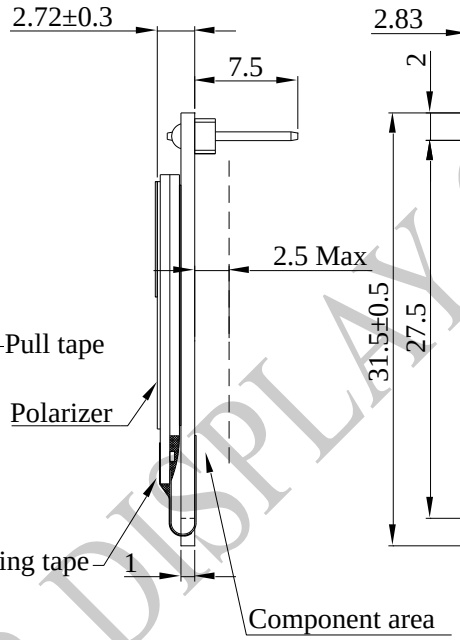
General Specification

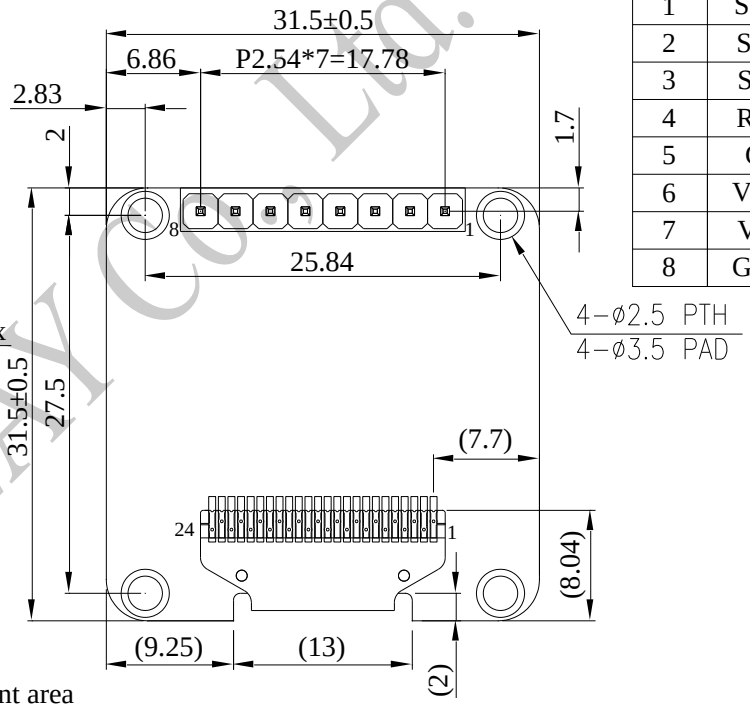
Item	Dimension	Unit
Dot Matrix	96 x 64 Dots	–
Module dimension	31.5x 31.5 x 2.72	mm
Active Area	22.53 x 15.01	mm
Pixel Size	0.205 x 0.205	mm
Pixel Pitch	0.235 x 0.235	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Gray scale	4 bits	
Drive Duty	1/64 Duty	
IC	SSD1327	
Interface	SPI ,Optional I2C	
Size	1.1 inch	

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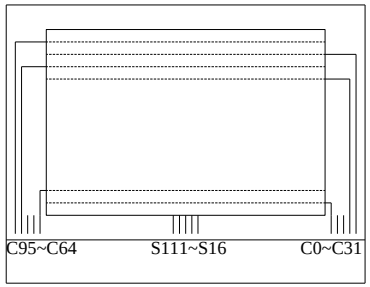
3. Contour Drawing & Block Diagram



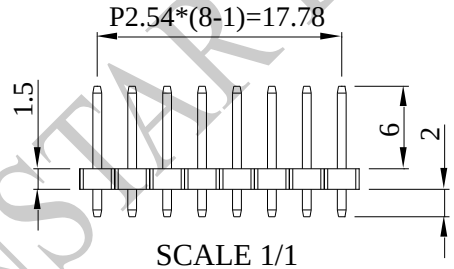




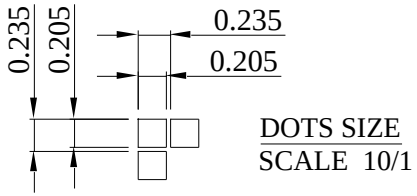
PIN No.	SYMBOL
1	SDA
2	SCL
3	SA0
4	RST
5	CS
6	VDD
7	VIN
8	GND



SEG & COM Layout



SCALE 1/1



DOTS SIZE
SCALE 10/1

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

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4. Interface Pin Function

No.	Symbol	Function
1	SDA	When serial interface mode is selected, D0 will be the serial clock input: SCLK; D1 will be the serial data input: SDIN. 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.
2	SCL	
3	SA0	In I2C mode, this pin acts as SA0 for slave address selection. When 3-wire serial interface is selected, this pin must be connected to VSS.
4	RST	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.
5	CS	This pin is the chip select input. (active LOW).
6	VDD	3.0V Power supply pin for core logic operation.
7	VIN	5.0V Power supply pin for core logic operation.
8	GND	This is a ground pin.

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5.Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	1.65	3.30	V	1,2
Supply Voltage for Logic	VIN	4.0	6.0	V	1,2
Supply Voltage for Display	VCC	0	16.0	V	1,2
Operating Temperature	TOP	-40	+80	°C	—
Storage Temperature	TSTG	-40	+85	°C	—

Note 1: All the above voltages are on the basis of “VSS = 0V”.

Note 2: When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the conditions according to Section 6.“Optics & Electrical Characteristics”. If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module may deteriorate.

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6.Electrical Characteristics

6.1 DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic	VDD	–	2.8	3.0	3.2	V
Supply Voltage for Logic	VIN	–	4.8	5.0	5.2	V
Supply Voltage for Display	VCC	–	7.5	8.0	8.5	V
Input High Volt.	VIH	–	0.8×VDD	–	VDDIO	V
Input Low Volt.	VIL	–	0	–	0.2×VDD	V
Output High Volt.	VOH	–	0.9×VDD	–	VDDIO	V
Output Low Volt.	VOL	–	0	–	0.1×VDD	V
50% Check Board operating Current	IDD	VDD=3.0V	–	55	100	mA

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