WINSTAR Display

OLED SPECIFICATION

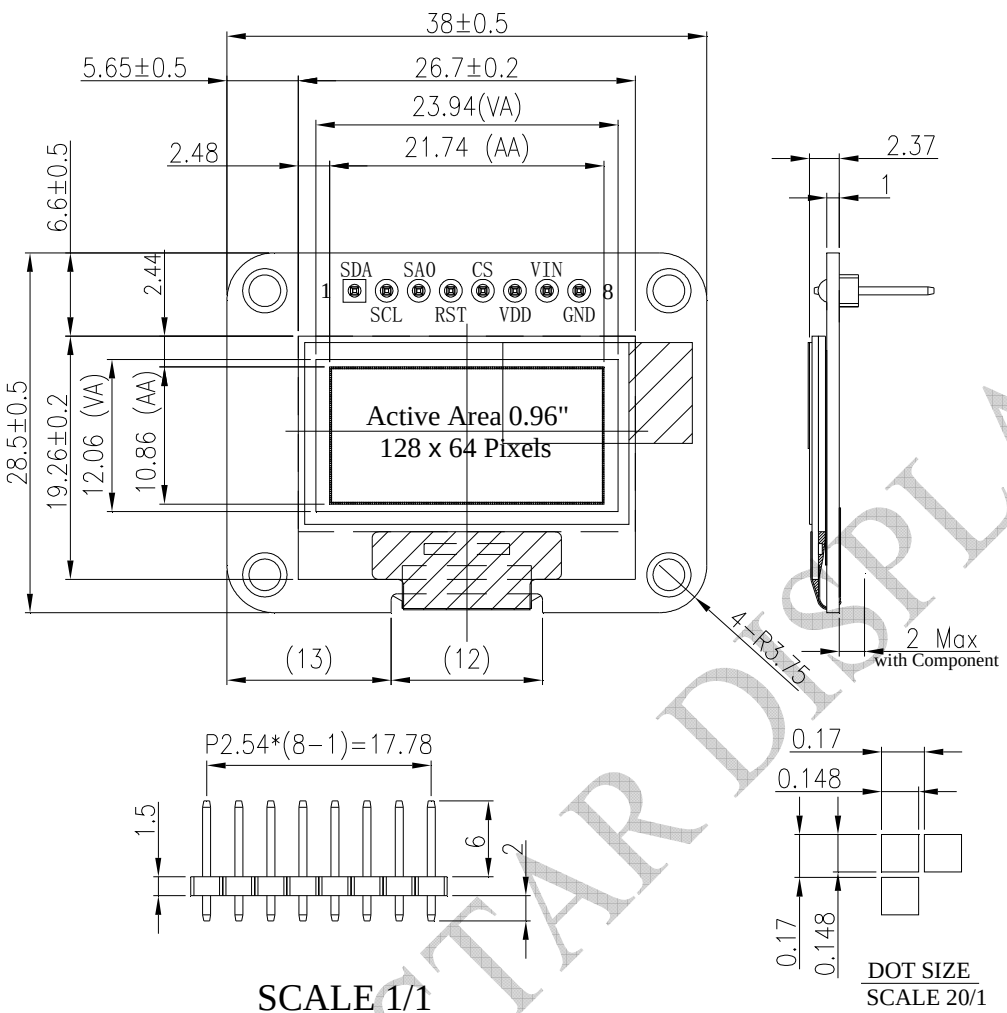
Model No:

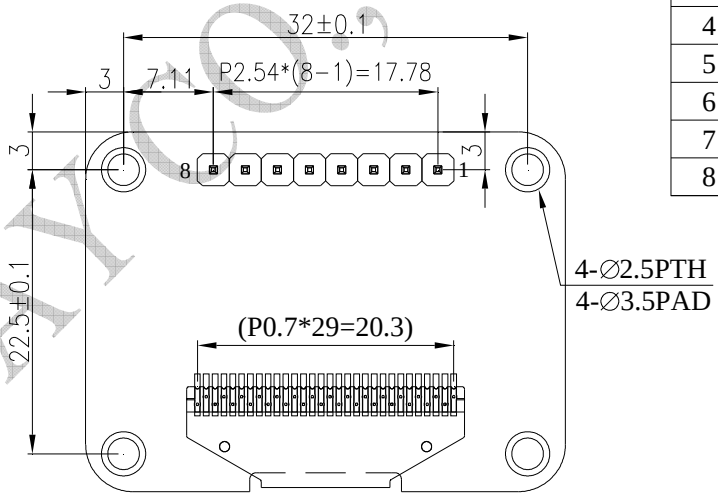
WEA012864D-01

General Specification

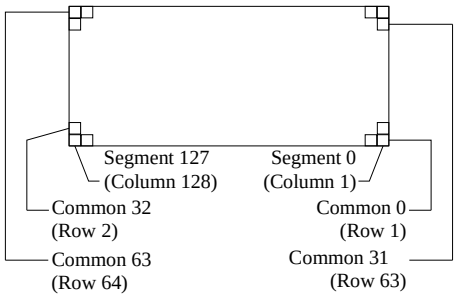
Item	Dimension	Unit
Dot Matrix	128 x 64 Dots	—
Module dimension	38.00 x 28.50 x 2.37	mm
Active Area	21.74 x 10.86	mm
Pixel Size	0.148 x 0.148	mm
Pixel Pitch	0.17 x 0.17	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/64 Duty	
IC	SSD1306BZ	
Interface	I2C,Optional SPI	
Size	0.96 inch	

Contour Drawing & Block Diagram





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



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

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.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	1.65	3.3	V
Supply Voltage for Logic	VIN	4.0	6.0	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

6.Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic (3V)	VDD	–	2.8	3.0	3.2	V
Supply Voltage for Logic (5V)	VIN	–	4.8	5.0	5.2	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	IDD	VDD=3V	–	12.0	20.0	mA