WINSTAR Display

OLED SPECIFICATION

Model No:

WEO12864W#JP3N00002-FC

Represented by:

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SPECIFICATION Version: I

CUSTOMER :	
MODULE NO. :	**WEO12864W#JP3N00002-FC**

APPROVED BY: **(FOR CUSTOMER USE ONLY)**	

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
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RELEASE DATE:			

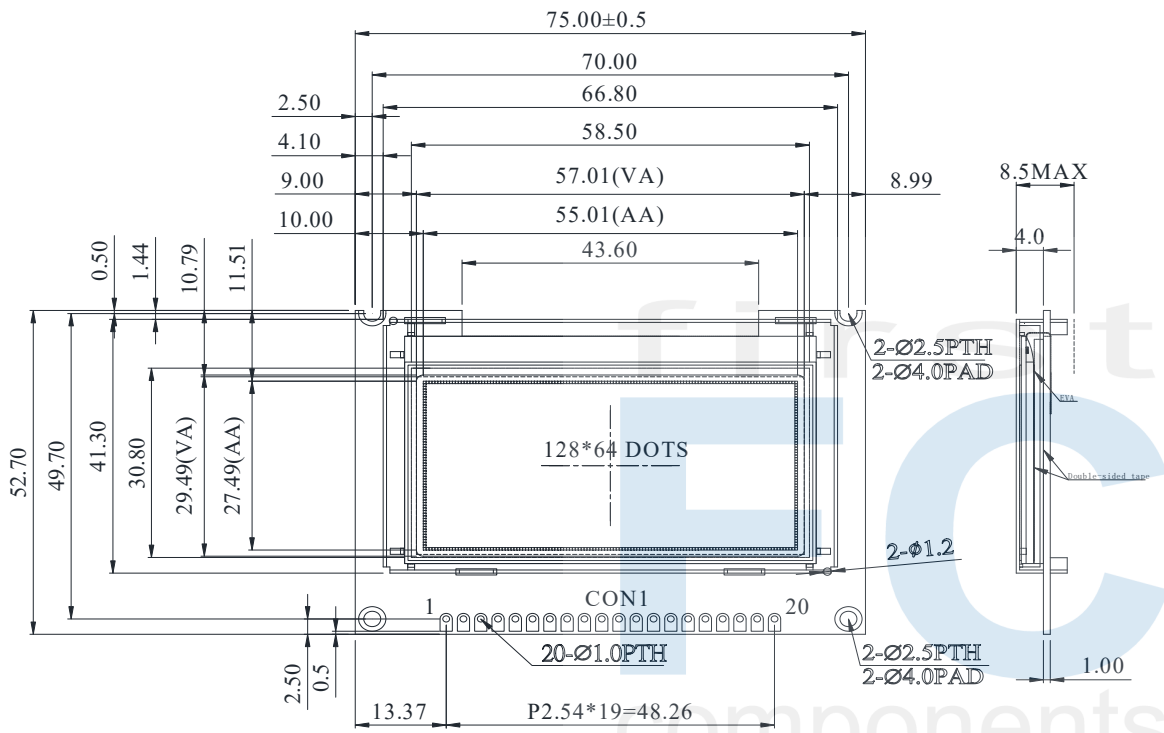
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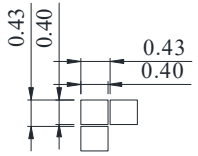
2.General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64	—
Module dimension	75.0 × 52.7 × 8.5	mm
Active Area	55.01 × 27.49	mm
Pixel Size	0.40 × 0.40	mm
Pixel Pitch	0.43 × 0.43	mm
Display Mode	Passive Matrix	
Display Color	Monochrome (White)	
Drive Duty	1/64 Duty	

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3. Contour Drawing & Block Diagram





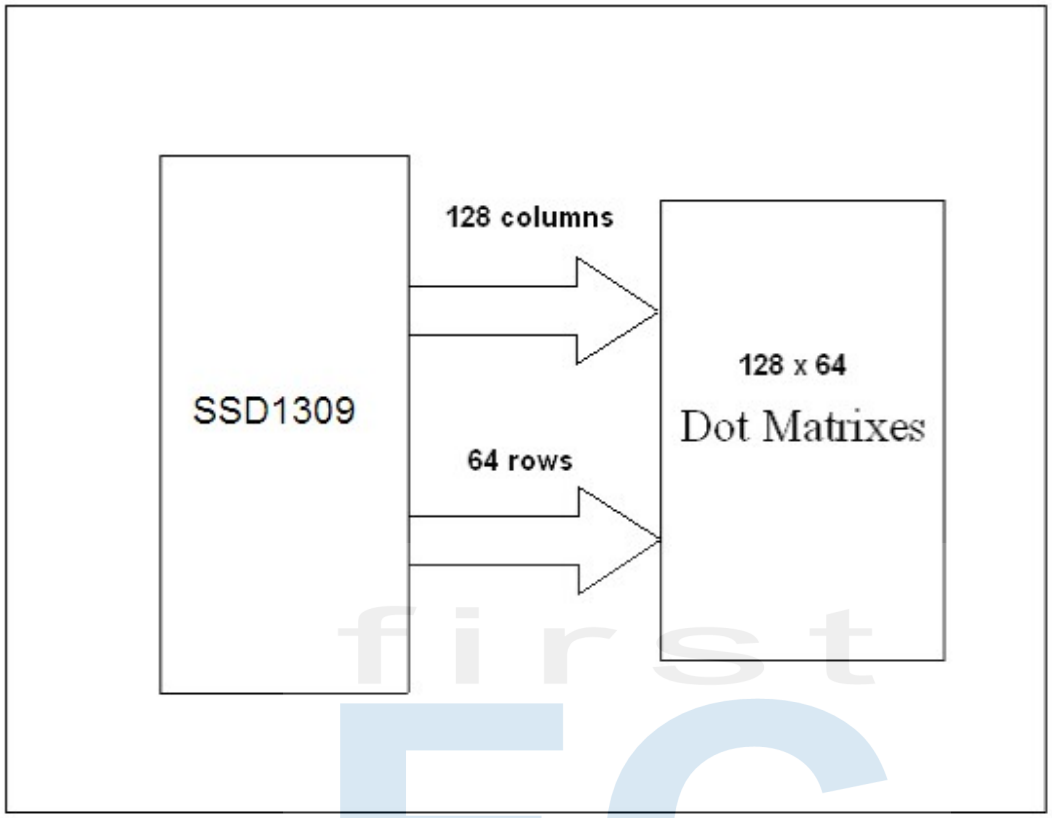
Detail DOTS Scale 10:1

CON1	
PIN NO.	SYMBOL
1	VDD
2	VSS
3	NC
4	SCLK
5	SDIN
6	NC
7	NC
8	NC
9	NC
10	NC
11	NC
12	CS#
13	NC
14	RES#
15	NC
16	D/C#
17	NC
18	NC
19	DISP
20	NC

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

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FUNCTION BLOCK DIAGRAM



*For more information, please refer to Application Note provided by Winstar

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4.Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply pin for core logic operation.
2	VSS	Ground.
3	NC	No connection
4	SCLK	Serial clock input
5	SDIN	Serial data input:
6	NC	No connection
7	NC	No connection. This pin can be connected to VSS.
8	NC	No connection. This pin can be connected to VSS.
9	NC	No connection. This pin can be connected to VSS.
10	NC	No connection. This pin can be connected to VSS.
11	NC	No connection. This pin can be connected to VSS.
12	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).
13	NC	No connection
14	RES#	This pin is reset signal input. When the pin is pulled LOW, initialization of the chip is executed. Keep this pin pull HIGH during normal operation.
15	NC	No connection. This pin can be connected to VSS.
16	D/C#	This pin is Data/Command control pin connecting to the MCU.
17	NC	No connection. This pin can be connected to VSS.
18	NC	No connection
19	DISP	Display off when it's pulled low; Display on when it's pulled high.
20	NC	No connection

5.Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	4	V	
Operating Temperature	TOP	-40	+80	°C	-
Storage Temperature	TSTG	-40	+80	°C	-

Maximum ratings are those values beyond which damages to the device may occur.
Functional operation should be restricted to the limits in the Electrical Characteristics tables or Pin Description section.
This device may be light sensitive. Caution should be taken to avoid exposure of this device to any light source during normal operation. This device is not radiation protected.

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6.Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic	VDD	—	2.8	3.0	3.3	V
High Level Input	VIH	—	0.8×VDD	—	—	V
Low Level Input	VIL	—	—	—	0.2×VDD	V
High Level Output	VOH	—	0.9×VDD	—	—	V
Low Level Output	VOL	—	—	—	0.1×VDD	V
50% Check Board operating Current	IDD	VDD =3.0V	120	135	145	mA

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