SPECIFICATION Version: 0

CUSTOMER :	
MODULE NO. :	WEX25664W#B08-FC

APPROVED BY: (FOR CUSTOMER USE ONLY)	

SALES BY	APPROVED BY	CHECKED BY	PREPARED BY
first FC components			
RELEASE DATE:			

Represented by:

first FC components

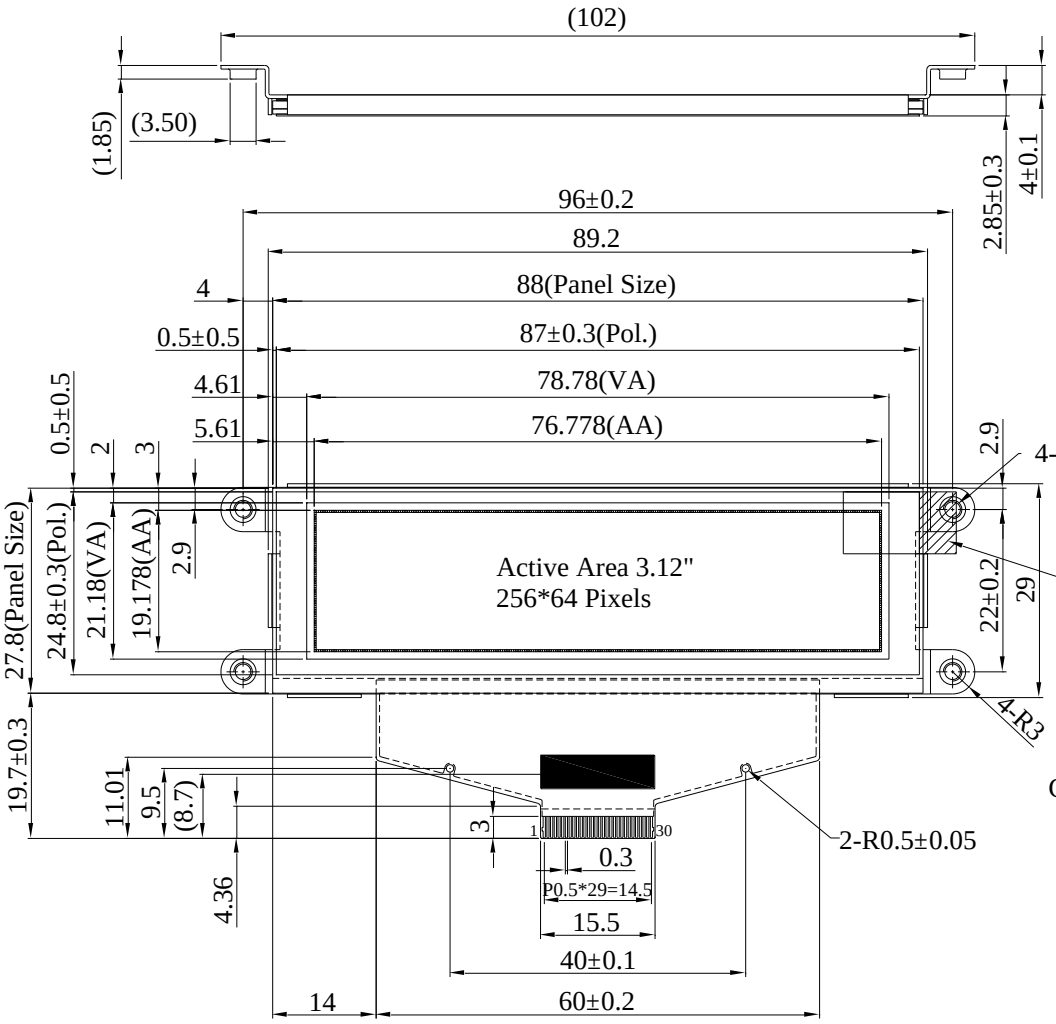
FIRST Components srl Via Cavour 69, 21020 Buguggiate (VA)

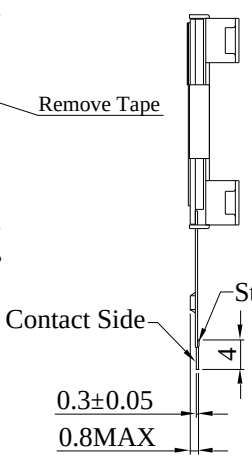
T. +39 0332 1888005 web: www.first-components.com

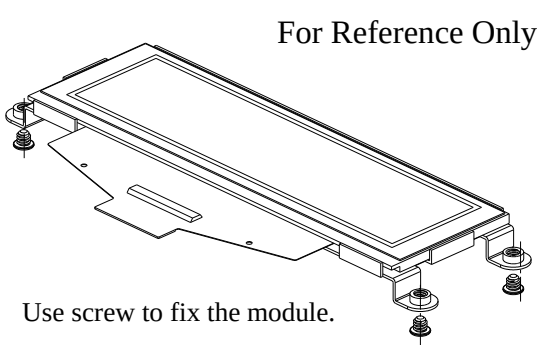
2.General Specification

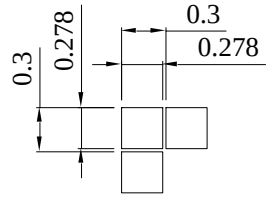
Item	Dimension	Unit
Dot Matrix	256 x 64 Dots	—
Module dimension	102.00 x 29.00 x 6.85	mm
Active Area	76.778 x 19.178	mm
Pixel Size	0.278 x 0.278	mm
Pixel Pitch	0.3 x 0.3	mm
Display Mode	Passive Matrix	
Display Color	White	
Drive Duty	1/64 Duty	
Gray Scale	4 bits	
IC	SSD1322 (COF)	
Interface	6800, 8080, SPI	
Size	3.12 inch	

3. Contour Drawing & Block Diagram

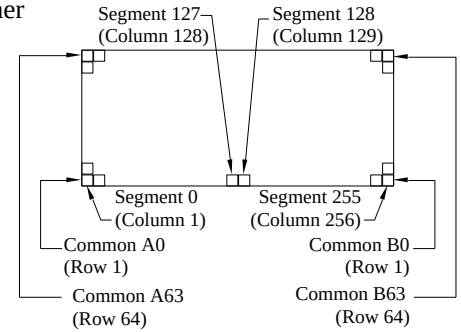








DOT SIZE
SCALE 20/1



PIN No.	SYMBOL
1	NC(GND)
2	VSS
3	VCC
4	VCOMH
5	VLSS
6	D7
7	D6
8	D5
9	D4
10	D3
11	D2
12	D1
13	D0
14	E/RD#
15	R/W#
16	BS0
17	BS1
18	DC#
19	CS#
20	RES#
21	FR
22	IREF
23	NC
24	VDDIO
25	VDD
26	VCI
27	VSL
28	VLSS
29	VCC
30	NC(GND)

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

4.Interface Pin Function

<table>
<tr><th>Pin Number</th><th>Symbol</th><th>I/O</th><th>Function</th></tr>
<tr><td>1</td><td>N.C. (GND)</td><td>P</td><td>Ground</td></tr>
<tr><td>2</td><td>VSS</td><td>P</td><td>Ground.</td></tr>
<tr><td>3</td><td>VCC</td><td>P</td><td>Power supply for panel driving voltage.
This is also the most positive power voltage supply pin.</td></tr>
<tr><td>4</td><td>VCOMH</td><td>P</td><td>COM signal deselected voltage level.
A capacitor should be connected between this pin and VSS.</td></tr>
<tr><td>5</td><td>VLSS</td><td>P</td><td>Analog system ground pin.</td></tr>
<tr><td>6~13</td><td>D7~D0</td><td>I/O</td><td>Host Data Input/Output Bus
These pins are 8-bit bi-directional data bus to be connected to the microprocessor’s data bus.
When serial mode is selected, D1 will be the serial data input SDIN and D0 will be the serial clock input SCLK.</td></tr>
<tr><td>14</td><td>E/RD#</td><td>I</td><td>Read/Write Enable or Read
This pin is MCU interface input.
When interfacing to a 68XX-series microprocessor, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled high and the chip is selected.
When connecting to an 80XX-microprocessor, this pin receives the Read (RD#) signal. Data read operation is initiated when this pin is pulled low and the chip is selected.
When serial mode is selected, this pin must be connected to VSS.</td></tr>
<tr><td>15</td><td>R/W#</td><td>I</td><td>Read/Write Select or Write
This pin is MCU interface input. When interfacing to a 68XX-series microprocessor, this pin will be used as Read/Write (R/W#) selection input. Pull this pin to “High” for read mode and pull it to “Low” for write mode.
When 80XX 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 mode is selected, this pin must be connected to VSS.</td></tr>
<tr><td>16</td><td>BS0</td><td rowspan="2">I</td><td rowspan="2">Communicating Protocol Select
These pins are MCU interface selection input. See the following table:
<table>
<tr><th>BS[1:0]</th><th>Bus Interface Selection</th></tr>
<tr><td>00</td><td>4 line SPI</td></tr>
<tr><td>01</td><td>3 line SPI</td></tr>
<tr><td>10</td><td>8-bit 8080 parallel</td></tr>
<tr><td>11</td><td>8-bit 6800 parallel</td></tr>
</table>
Note
(1) 0 is connected to VSS
(2) 1 is connected to VDDIO</td></tr>
<tr><td>17</td><td>BS1</td></tr>
</table>

18	**D/C#**	I	***Data/Command Control*** This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the content at D[7:0] will be interpreted as data. When the pin is pulled LOW, the content at D[7:0] will be interpreted as command.
19	**CS#**	I	***Data/Command Control*** This pin is the chip select input connecting to the MCU. The chip is enabled for MCU communication only when CS# is pulled LOW.
20	**RES#**	I	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.
21	**FR**	O	This pin is No Connection pins. Nothing should be connected to this pin. This pin should be left open individually.
22	**IREF**	I	***Current Reference for Brightness Adjustment*** This pin is segment current reference pin. A resistor should be connected between this pin and VSS. Set the current lower than 10uA.
23	**N.C.**	-	***Reserved Pin*** The N.C. pin between function pins are reserved for compatible and flexible design.
24	**VDDIO**	P	***Power Supply for I/O Pin*** It should be matched with the MCU interface voltage level.
25	**VDD**	P	***Power Supply for Core Logic Circuit*** Power supply pin for core logic operation. A capacitor is required to connect between this pin and VSS
26	**VCI**	P	***Power Supply for Operation*** VCI must always be equal to or higher than VDD and VDDIO.
27	**VSL**	P	***Voltage Output Low Level for SEG Signal*** This is segment voltage reference pin. When external VSL is not used, this pin should be left open. When external VSL is used, this pin should connect with resistor and diode to ground.
28	**VLSS**	P	Analog system ground pin.
29	**VCC**	P	Power supply for panel driving voltage. This is also the most positive power voltage supply pin.
30	**N.C. (GND)**	P	Ground