WINSTAR Display

OLED SPECIFICATION

Model No:

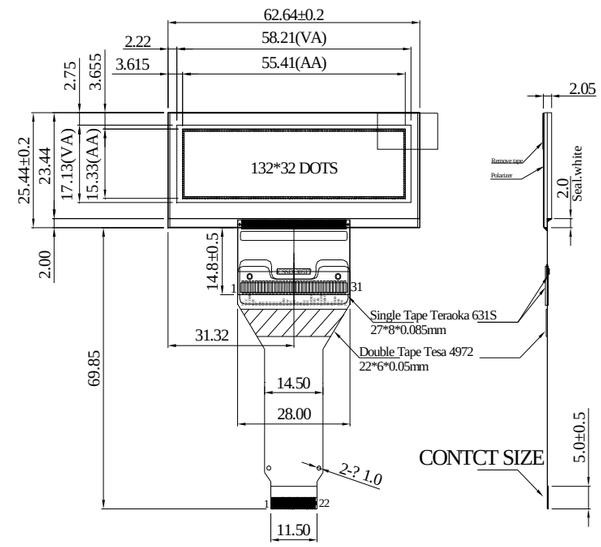
WEX013232B

General Description

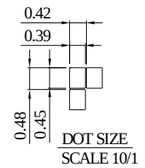
Item	Dimension	Unit
Number of Characters	132 Dots x 32 Dots	-
Module dimension	62.64 × 25.44 × 2.05 (mm)	mm
Active Area	55.41 × 15.33 (mm)	mm
Pixel Pitch	0.39 × 0.45 (mm)	mm
Pixel Size	0.42 × 0.48 (mm)	mm
Display Mode	Passive Matrix	
Display Color	Monochrome (Yellow)	
Drive Duty	1/32 Duty	

first FC components

Contour Drawing



PIN NO.	SYMBOL
1	VCC
2	VCOMH
3	IREF
4	D7
5	D6
6	D5
7	D4
8	D3
9	D2
10	D1
11	D0
12	E/RD#
13	R/W#
14	D/C#
15	RES#
16	CS#
17	BS2
18	BS1
19	VDD
20	NC
21	VSS
22	VSS



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

first FC components

Interface Pin Function

<table>
<tr><th>No.</th><th>Symbol</th><th>Function</th></tr>
<tr><td>1</td><td>VCC</td><td>Power supply for analog circuit.</td></tr>
<tr><td>2</td><td>VCOMH</td><td>Com Voltage Output. A capacitor should be connected
between this pin and VSS.</td></tr>
<tr><td>3</td><td>IREF</td><td>Reference current input pin.
A resistor should be connected between this pin and VSS.</td></tr>
<tr><td>4~11</td><td>D7~D0</td><td>Data bus.</td></tr>
<tr><td>12</td><td>E/RD#</td><td>Data read operation is initiated when it’s pull low.</td></tr>
<tr><td>13</td><td>R/W#</td><td>Data write operation is initiated when it’s pull low.</td></tr>
<tr><td>14</td><td>D/C#</td><td>Data/ Command control.
Pull high for write/read display data.
Pull low for write command or read status.</td></tr>
<tr><td>15</td><td>RES#</td><td>Reset signal input.
When it’s low, initialization of SSD1305 is executed.</td></tr>
<tr><td>16</td><td>CS#</td><td>Chip select input.</td></tr>
<tr><td>17</td><td>BS2</td><td rowspan="2">Communicating Protocol Select
These pins are MCU interface selection input. See the following table:
<table>
<tr><th></th><th>68XX-parallel</th><th>80XX-parallel</th><th>Serial</th></tr>
<tr><td>BS1</td><td>0</td><td>1</td><td>0</td></tr>
<tr><td>BS2</td><td>1</td><td>1</td><td>0</td></tr>
</table></td></tr>
<tr><td>18</td><td>BS1</td></tr>
<tr><td>19</td><td>VDD</td><td>Power supply for logic circuit.</td></tr>
<tr><td>20</td><td>NC</td><td>No connection</td></tr>
<tr><td>21</td><td>VSS</td><td>Ground.</td></tr>
<tr><td>22</td><td>VSS</td><td>Ground.</td></tr>
</table>

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	3.5	V	1,2
Supply Voltage for Display	VCC	8	16	V	1,2
Operating Temperature	TOP	-40	80	℃	—
Storage Temperature	TSTG	-40	80	℃	—

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 3.“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.