WINSTAR Display

OLED SPECIFICATION

Model No:

WEX012864E

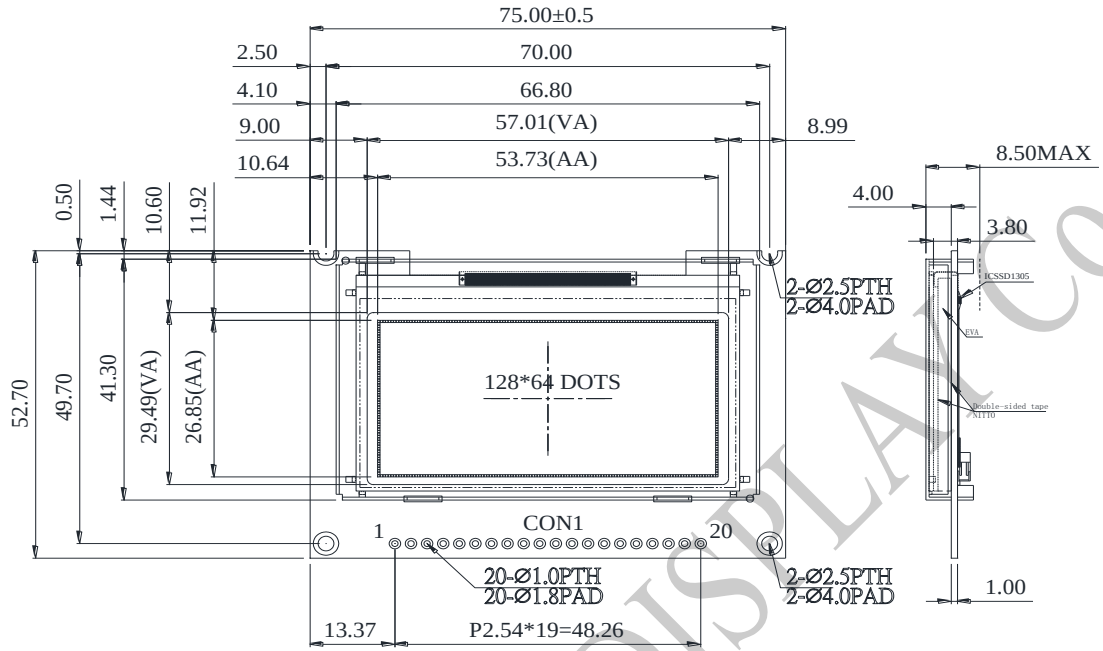
General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64	—
Module dimension	75.0 × 52.7 × 8.5 (mm)	mm
Active Area	53.73 × 26.85 (mm)	mm
Pixel Size	0.39 × 0.39 (mm)	mm
Pixel Pitch	0.42 × 0.42 (mm)	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/64 Duty	

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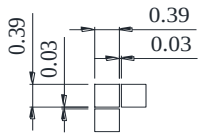
first FC components

Contour Drawing & Block Diagram



CON1	
PIN NO.	SYMBOL
1	VDD
2	VSS
3	NC
4	DB0
5	DB1
6	DB2
7	DB3
8	DB4
9	DB5
10	DB6
11	DB7
12	CS
13	NC
14	/RES
15	R/W
16	D/C
17	E
18	NC
19	DISP
20	NC

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



DOT SIZE
SCALE 20/1

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Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply for analog circuit.
2	VSS	Ground.
3	NC	No connection
4~11	D0~D7	Data bus.
12	CS#	Chip select input.
13	NC	No connection
14	RES#	Reset signal input. When it's low, initialization of SSD1305 is executed.
15	R/W#	Data write operation is initiated when it's pull low.
16	D/C#	Data/ Command control. Pull high for write/read display data. Pull low for write command or read status.
17	E/RD#	Data read operation is initiated when it's pull low.
18	NC	No connection
19	DISP	Display off
20	NC	No connection

8080 INTERFACE.

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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	VDD	-0.3	4	V	1, 2
Supply Voltage for Display	VCC	0	16	V	1, 2
Operating Temperature	TOP	-40	+80	°C	-
Storage Temperature	TSTG	-40	+80	°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 Section6. “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

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	—	VDD	V
Low Level Input	VIL	—	0	—	0.2×VDD	V
High Level Output	VOH	—	0.9×VDD	—	VDD	V
Low Level Output	VOL	—	0	—	0.1×VDD	V
50% Check Board operating Current		VDD =3.0V	75	78	82	mA

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