WINSTAR Display

OLED SPECIFICATION

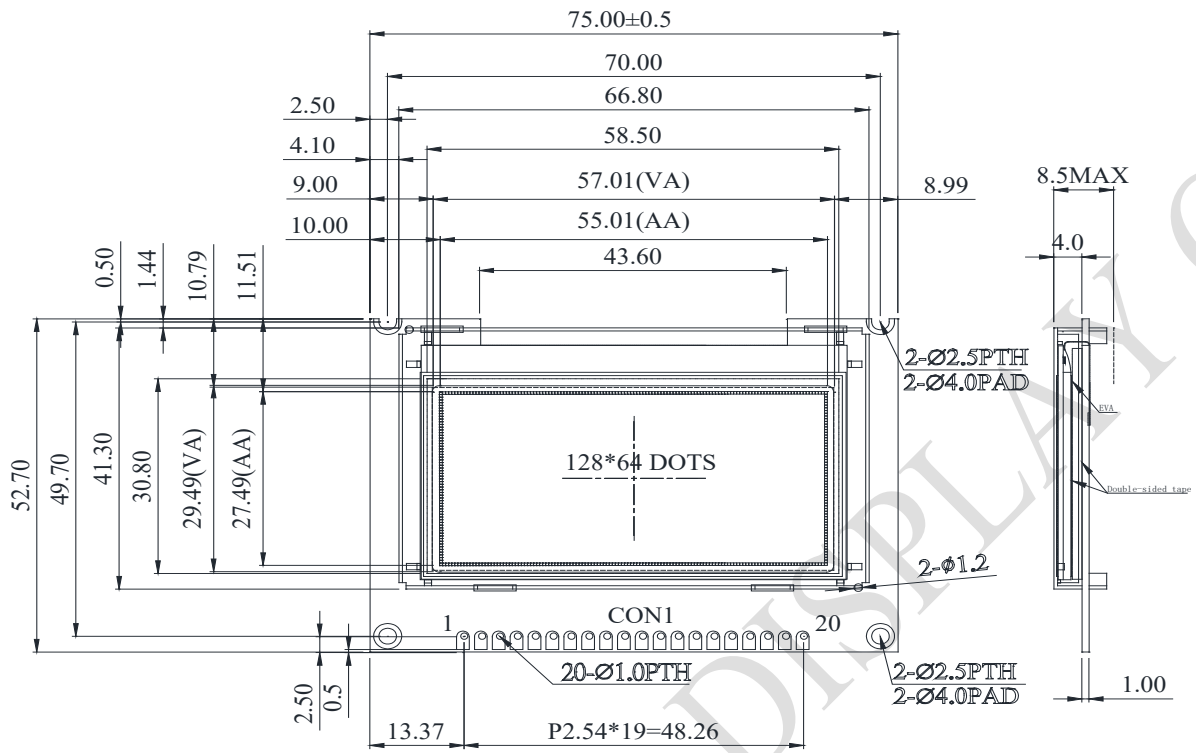
Model No:

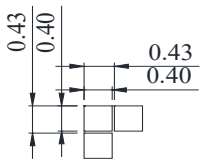
WEO012864J

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	
IC	SSD1309	
Interface	8080	
Size	2.42 inch	

Contour Drawing & Block Diagram





Detail DOTS Scale 10:1

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.

Interface Pin Function

No.	Symbol	Function
1	VDD	Power supply pin for core logic operation.
2	VSS	Ground.
3	NC	No connection
4~11	D0~D7	Data bus.
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	R/W	This pin is read / write control input pin connecting to the MCU interface. When 8080 interface mode is selected, this pin is pulled LOW and the chip is selected
16	D/C	This pin is Data/Command control pin connecting to the MCU.
17	E	This pin is MCU interface input. When 8080 interface mode is selected, this pin is pulled LOW and the chip is selected
18	NC	No connection
19	DISP	Display off when it's pulled low; Display on when it's pulled high.
20	NC	No connection

* 80 Series Interface is default

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VDD	-0.3	4	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

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