WINSTAR Display

OLED SPECIFICATION

Model No:

WEA16080W#AP3N00000-FC

Represented by:

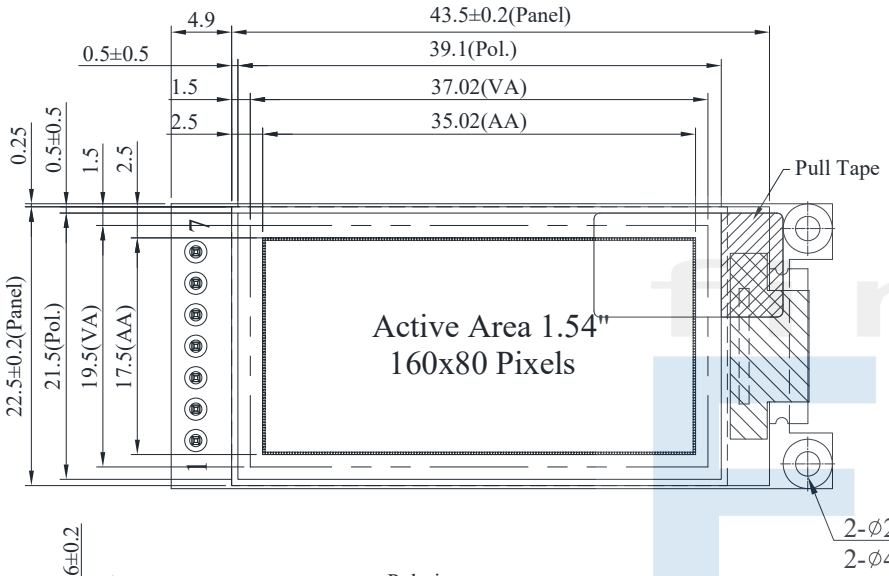
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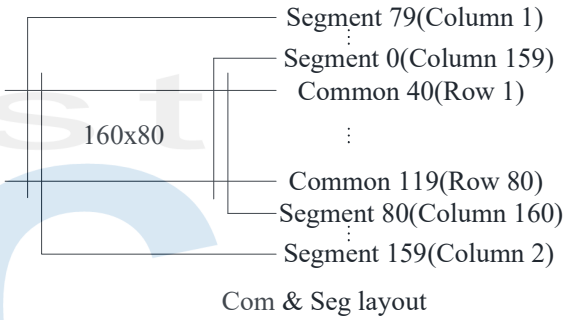
General Specification

Item	Dimension	Unit
Dot Matrix	160 x 80 Dots	—
Module dimension	43.5 x 22.5 x 5.96 Max.	mm
Active Area	35.02 x 17.50	mm
Pixel Size	0.199 x 0.199	mm
Pixel Pitch	0.219 x 0.219	mm
Display Mode	Passive Matrix	
Display Color	White	
Drive Duty	1/80 Duty	
Gray Scale	4 bits	
IC	SSD1320	
Interface	4-Wire SPI	
Size	1.54 inch	

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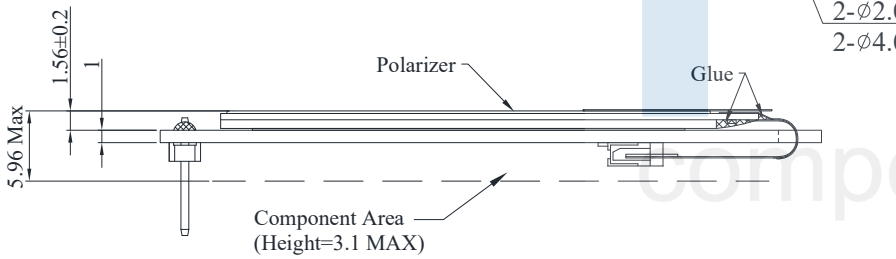
Contour Drawing & Block Diagram

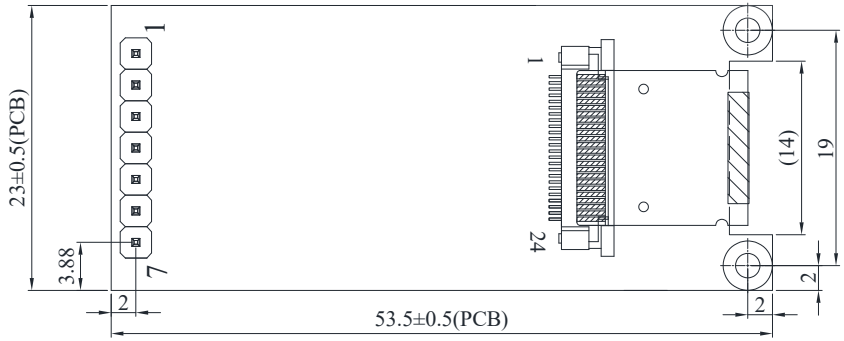


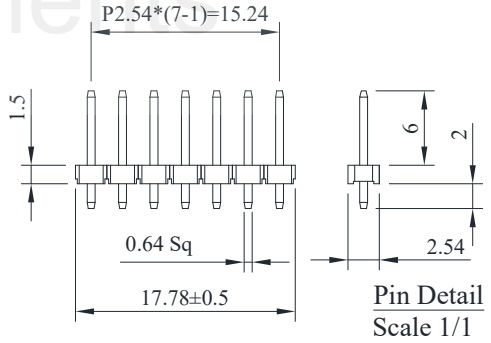


Com & Seg layout

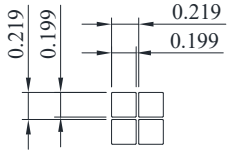
PIN	SYMBOL
1	GND
2	VCC
3	D0
4	D1
5	RES#
6	D/C#
7	CS#







Pin Detail
Scale 1/1



Dots Size
Scale 10/1

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

Interface Pin Function

No.	Symbol	Function
1	GND	Ground pin.
2	VCC	**Power Supply for OEL Panel** This is the most positive voltage supply pin of the chip. It must be connected to external source.
3	D0	The serial clock input
4	D1	The serial data input
5	RES#	**Power Reset for Controller and Driver** This pin is reset signal input. When the pin is low, initialization of the chip is executed. Keep this pin pull high during normal operation.
6	D/C#	**Data/Command Control** This pin is Data/Command control pin.
7	CS#	**Chip Select** This pin is the chip select input. The chip is enabled for MCU communication only when CS# is pulled low.

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Absolute Maximum Ratings

Parameter	Symbol	Min	Typ.	Max	Unit
Supply Voltage for Display	VCC	-0.3	–	5.5	V
Operating Temperature	TOP	-40	–	+80	°C
Storage Temperature	TSTG	-40	–	+85	°C

Electrical Characteristics

DC Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage for Logic	VCC	–	2.8	3.0	5.2	V
High Level Input	VIH	–	0.8×VCC	–	VCC	V
Low Level Input	VIL	–	0	–	0.2×VCC	V
High Level Output	VOH	–	0.9×VCC	–	VCC	V
Low Level Output	VOL	–	0	–	0.1×VCC	V
Display 50% Pixel on	ICC	VCC =3V	–	110	220	mA