

WINSTAR Display

OLED SPECIFICATION

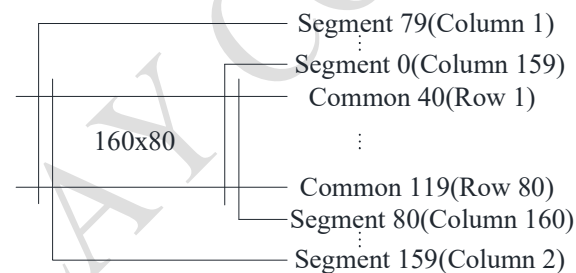
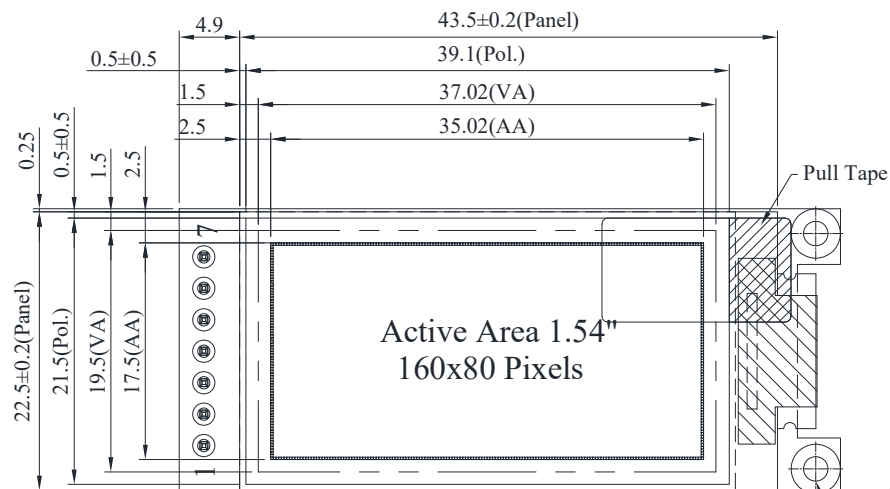
Model No:

WEA016080A

General Specification

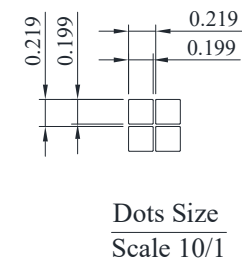
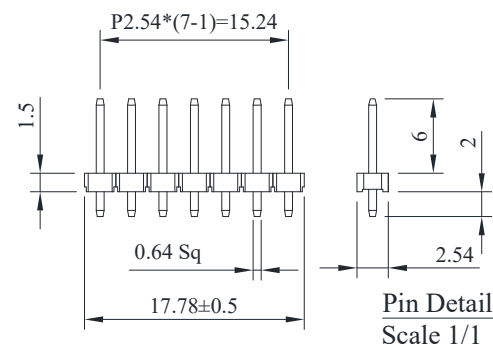
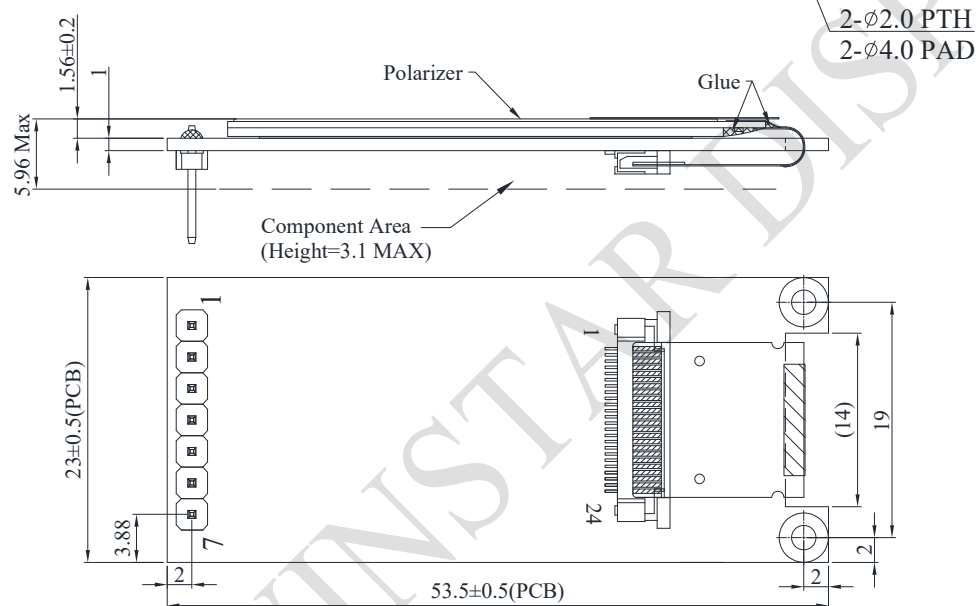
Item	Dimension	Unit
Dot Matrix	160 x 80 Dots	—
Module dimension	43.5 x 22.5 x 5.96 Max.	mm
Active Area	35.02 x 17.50	mm
Pixel Size	0.199 x 0.199	mm
Pixel Pitch	0.219 x 0.219	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/80 Duty	
Gray Scale	4 bits	
IC	SSD1320	
Interface	4-Wire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

Contour Drawing & Block Diagram



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

Com & Seg layout



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.

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