

OLED DISPLAY SPECIFICATION



RAYSTAR

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REA016080A

General Specification

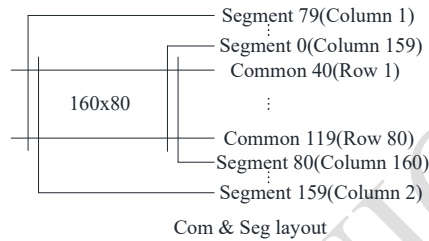
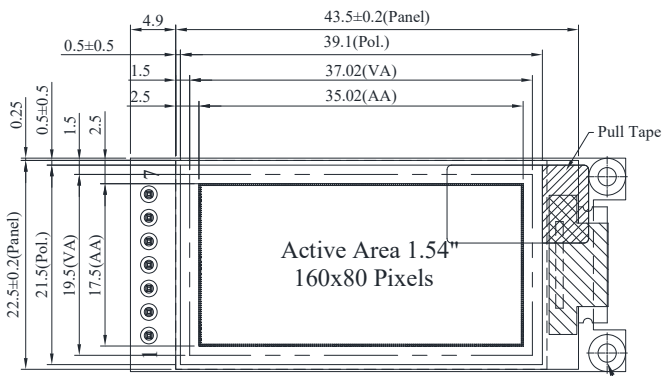
The Features is described as follow:

- Module dimension: 43.5 x 22.5 x 5.96mm
- Active area: 35.02 x 17.50 mm
- Dot Matrix: 160 x 80
- Pixel size: 0.199 x 0.199 mm
- Pixel pitch: 0.219 x 0.219 mm
- Display Mode : Passive Matrix
- Duty: 1/80 Duty
- Display Color: Monochrome
- IC: SSD1320
- Gray Scale: 4 bits
- Interface: 4-Wire SPI
- Size: 1.54 inch

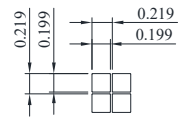
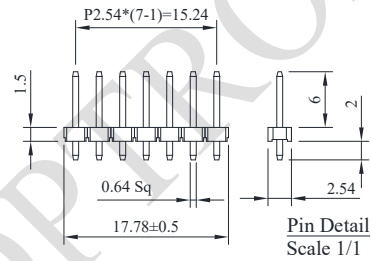
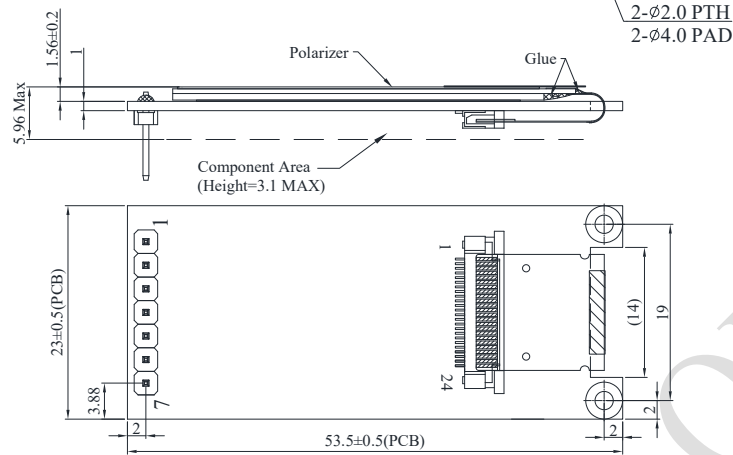
Interface Pin Function

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.

Contour Drawing



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



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

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	VDD	—	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