

WINSTAR Display

OLED SPECIFICATION

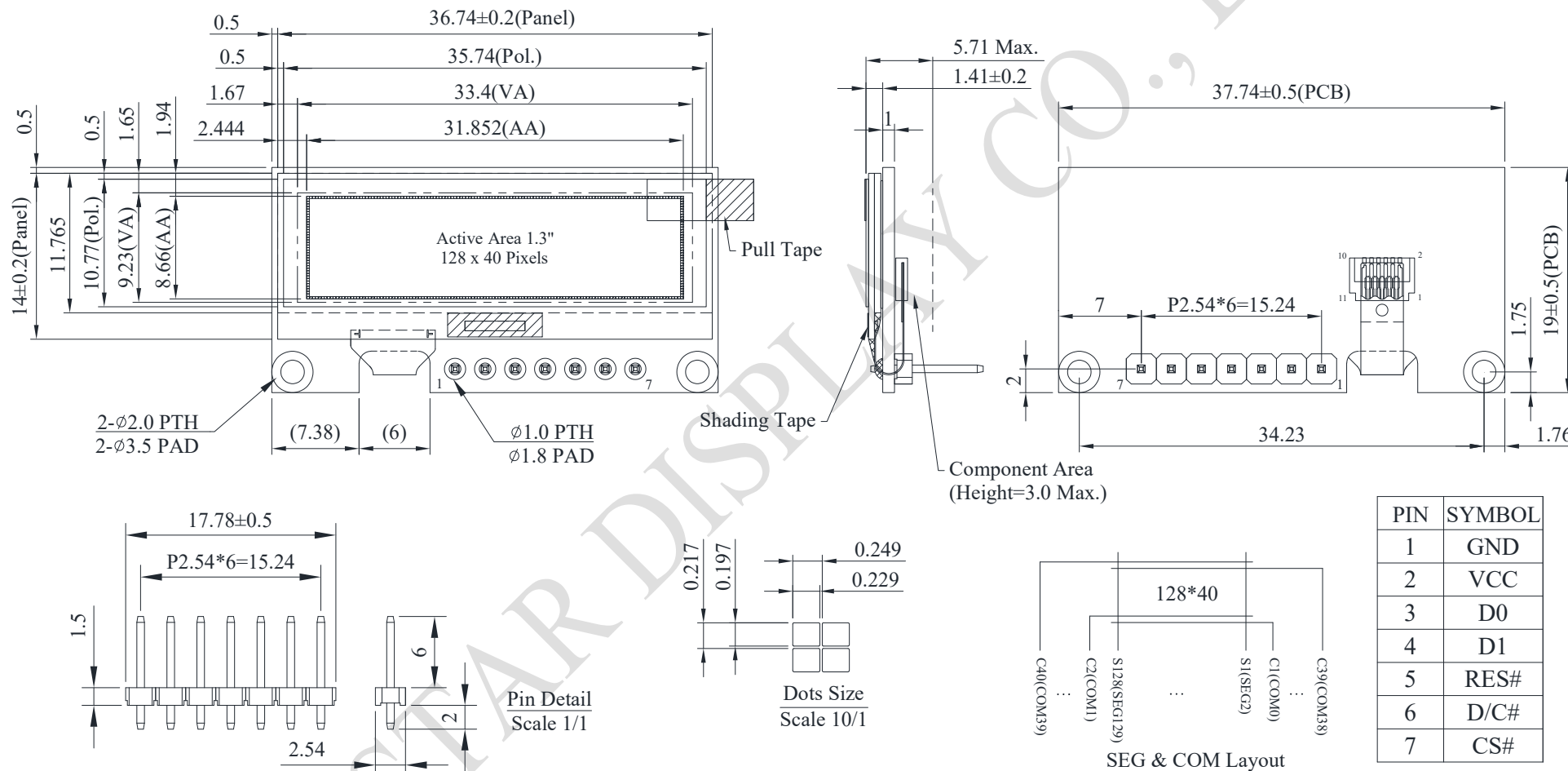
Model No:

WEA012840A

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 40	—
Module dimension	37.74 × 19.0 × 5.71 Max.	mm
Active Area	31.852 × 8.66	mm
Pixel Size	0.229 × 0.197	mm
Pixel Pitch	0.249 × 0.217	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/40 Duty	
Gray Scale	2 (White/Black)	
Dimmer Steps	256 step	
Controller IC	SH1106G-0E	
Interface	4-Wire SPI	
Size	1.3 inch	

Contour Drawing & Block Diagram



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

Interface Pin Function

No.	Symbol	Function
1	GND	GND.
2	VCC	OLED Drive Power Supply.
3	D0	The serial clock input pad.
4	D1	The serial data input pad.
5	RES#	This is a reset signal input pad. When RES is set to “L”, the settings are initialized. The reset operation is performed by the RES signal level.
6	D/C#	This is the Data/Command control pad that determines whether the data bits are data or a command.
7	CS#	This pad is the chip select input.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Logic Power Supply Voltage	VCC	-0.3	3.6	V
Operating Temperature	TOP	-40	+80	°C
Storage Temperature	TSTG	-40	+85	°C

Electrical Characteristics

DC Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Logic Power Supply Voltage	VCC	—	2.5	3.3	3.5	V
Input High Volt.	VIH	—	0.8xVCC	—	VCC	V
Input Low Volt.	VIL	—	0	—	0.2xVCC	V
Output High Volt.	VOH	—	0.8xVCC	—	VCC	V
Output Low Volt.	VOL	—	0	—	0.2xVCC	V
Display 50% Pixel on	ICC	VCC=3.3V	—	30	45	mA