

WINSTAR Display

OLED SPECIFICATION

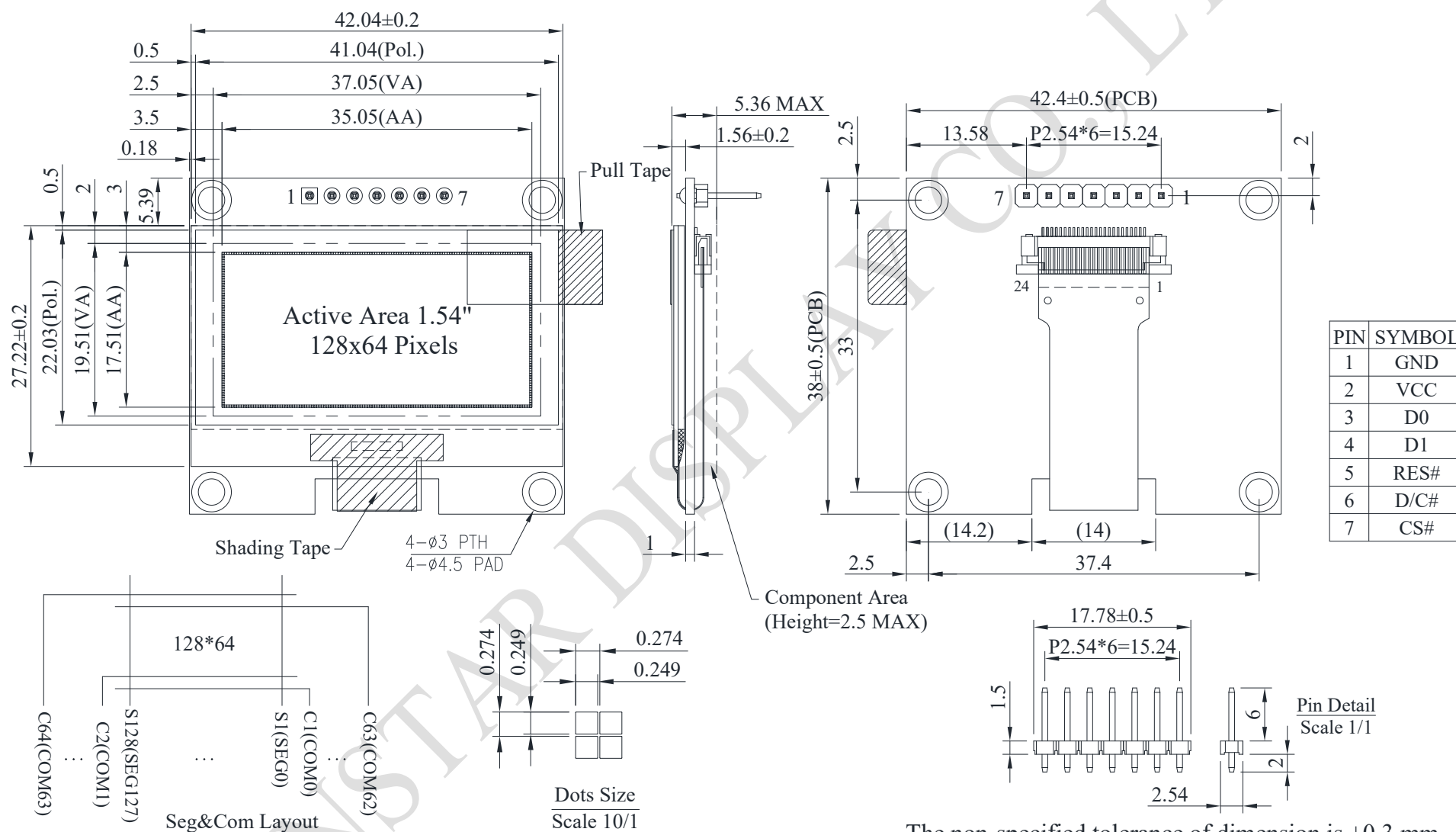
Model No:

WEA012864AE

General Specification

Item	Dimension	Unit
Dot Matrix	128 x 64	—
Module dimension	42.4 x 38.0 x 5.36 (MAX)	mm
Active Area	35.05 × 17.51	mm
Pixel Size	0.249 × 0.249	mm
Pixel Pitch	0.274 × 0.274	mm
Display Mode	Passive Matrix	
Display Color	Monochrome	
Drive Duty	1/64 Duty	
IC	CH1116	
Interface	4-wire SPI	
Size	1.54 inch	

Contour Drawing & Block Diagram



Interface Pin Function

No.	Symbol	Function
1	GND	Ground.
2	VCC	Power supply input
3	D0	The serial clock input
4	D1	The serial data input
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. D/C# = "H": the input at D1 is treated as display data. D/C# = "L": the input at D1 is transferred to the command registers.
7	CS#	This pad is the chip select input. When CS# = "L", then the chip select becomes active, and data/command I/O is enabled.

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage for Logic	VCC	0	7	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	5.5	V
High Level Input	VIH	—	$0.8 \times VCC$	—	VCC	V
Low Level Input	VIL	—	VSS	—	$0.2 \times VCC$	V
High Level Output	VOH	—	$0.8 \times VCC$	—	VCC	V
Low Level Output	VOL	—	VSS	—	$0.2 \times VCC$	V
Display 50% Pixel on	ICC	VCC = 3.0V	—	60	120	mA